

# **The Analysis of the Value of Applying Landscape Design and Ornamental Plant Based on Ecological Aesthetics**

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**Abstract:** At present, the development model and goals of the human living environment are constantly changing with the change of social values. This transformation has given urban landscape design an ecological aesthetic and provided a better sensory experience for the people. As an aesthetic element in landscape design, ornamental plants have been adopted by many designers because of their role in regulating small-scale temperature, humidity and purifying air. Therefore, this paper analyzes the ecological aesthetic elements in urban landscape design, and studies the application value of ornamental plants in landscape design, providing theoretical references for relevant designers.

## **1. Research Background**

### **1.1 Literature review**

Luo Yijun pointed out that the landscape design in the residential community needs to combine different aesthetic concepts and adopt a variety of construction methods to help to show the aesthetic value of different buildings (Luo , 2016).Jiang Wenjia combined with the church landscape project to analyze the role of ecological aesthetics in plant configuration from the perspective of natural aesthetics through the method of optimal plant configuration, which can reduce human damage to nature (Jiang , 2014).Starting from the forest aesthetics theory, Bao Zhanxiong further expands the concept of scenic tour forests by studying the application of forest aesthetics in different fields, which is conducive to promoting the transformation of forest aesthetics, improving the ecological aesthetic value system, and guiding tourists to a better ecology. Beauty Experience (Bao, 2008).Under different attitudes and rhythms of life, Luo Weiwei found that people's perceptions of art and beauty are quite different. Applying this cognitive bias to fashion design may have a greater impact on design concepts.But from another perspective, this cognitive bias helps designers to look at fashion elements from different angles and produce novel works (Luo, 2018).

### **1.2 Purpose of research**

In recent years, along with the gradual acceleration of urbanization, people's living standards have improved significantly, and residents have paid more attention to the aesthetic performance of natural environment. Combining ecological aesthetics with landscape design, adding more vitality and vitality to the blunt architectural environment, can promote the urban environment more humane and natural, not only become a new requirement of landscape design, but also a new harmonious society. New approach. Moreover, in the current promotion of building a harmonious society, the application of plant landscape to landscape design is also a new method to meet the needs of different design levels, representing the future development direction of landscape design. As we all know, most people hope to live in a good environment, create a good and beautiful landscape environment for people, and gradually become the primary task in the development of the design field. The introduction of ornamental plants in landscape design is a new creative idea that will become the mainstream method and idea in the future design field. Based on this, this paper analyzes the related concepts of ecological aesthetics and landscape design, and then analyzes some ecological aesthetic elements in urban landscape design, studies the value of ornamental plants in

landscape design, and helps to fill the research gap in the field of design.

## **2. Overview of related theories**

Eco-aesthetics is a discipline gradually developed in a different green movement after the emergence of ecological crisis, which generally belongs to the framework of environmental aesthetics. In the practical application process, the relevant departments divide ecological aesthetics into three types: natural ecology, spiritual and cultural production ecology and social material production ecology (Zhou, 2017). Under certain circumstances, people redefined the ecological aesthetics, believing that ecological aesthetics is a green theory of building a harmonious society from the two aspects of ecology and aesthetics, which is conducive to promoting the harmonious coexistence between man and nature. Under the guidance of ecological aesthetics, the first is to promote the affinity between man and nature, and then to form the symbiotic relationship between man and nature. The main purpose is to emphasize the people's love for nature, the degree of closeness to nature, and the degree of respect for nature (Zhou, 2008). Later, with the development of contemporary aesthetics, under the background of the new era, people redefined ecological aesthetics, believing that ecological aesthetics is an organic combination of aesthetics and ecology. It mainly uses ecological aesthetics to study aesthetics, and combines some theories and methods of ecology with aesthetics, so as to form a new kind of aesthetics. Aesthetic theory form.

Most people's first reflection of the landscape is to evaluate whether the landscape is beautiful and whether it can bring people a sense of pleasure. The combination of aesthetics and creativity, and landscape design with corresponding materials, can highlight different local characteristics and local spirit, and finally use aesthetic feeling to realize the dialogue between man and nature. In the application of ecological aesthetics in landscape design, it should be noted that designers need to grasp the appropriate design boundaries. If the design boundaries are too exaggerated and obviously beyond the design boundaries, it will bring two negative impacts on landscape design. On the one hand, the design is excessive. Even if some aesthetic elements are used too frequently, even beyond the capacity of the original natural scenery, it is easy to give people the feeling of forcible implantation, and bring bad aesthetic feelings to the public. On the other hand, the sense of design is insufficient. This design method is generally designed by designers in order to vigorously leave the original landscape, or improper use of some aesthetic elements, or even dare not use a large number of aesthetic elements to design, resulting in serious lack of sense of design of the landscape, the landscape presented can not meet the public aesthetic.

The theoretical basis of landscape design should combine the values of ecology, sociology and aesthetics, and promote a utilization relationship among planners, executives and viewers by considering the landscape in an all-round way. The ultimate goal of landscape design should be to make ecological aesthetics present well in the landscape. Ecology exists in the landscape as a kind of beauty, rather than allowing the landscape to be controlled or occupied (Gan, 2016). Especially for the design of some urban landscape, we should combine life ecology with design, integrate ecological function with aesthetic form, match nature with urban landscape, promote the landscape to be no longer lonely in urban layout, let the city and nature blend together, naturally participate in the design better, and bring people better perception. Experience.

## **3. Analysis of ecological aesthetic elements in urban landscape design**

Establishing an ecologically civilized city, integrating eco-aesthetics and landscape design into different urban areas, promotes the city's eco-aesthetic objects no longer limited to the traditional natural landscape, but gradually spread to different eco-aesthetics, which is conducive to Designers're-creation of the ecological environment. In urban landscape design, there are generally four ecological aesthetic design elements, which are terrain landscape, water landscape, cultural landscape and vegetation landscape.

### **3.1 Terrain landscape**

To create an ornamental landscape is not only to improve the environment and ecological conditions of the city, but also to protect the natural environment of the city. To a certain extent, it can create a more refined and scientific landscape pattern than the natural environment. At the same time, the use of eco-aesthetics, terrain, can make designers better use of Terrain Landscape style, through appropriate transformation of terrain, and with the help of different dollar elements, to create a landscape with diversity for viewers, and achieve the unity of nature and terrain ecology. In addition, if there are undulating terrain in the landscape, the undulating change of the terrain can easily affect the overall structure of the landscape to a certain extent. Therefore, with the help of the undulating changes of different terrain, according to the geographical characteristics of the terrain and the corresponding features of the surrounding attractions, and with the help of landscape elements with use value, the majority of designers can maximize the role of different terrain in landscape design.

### **3.2 Water landscape**

As a key part of landscape design, water landscape occupies an important position in the landscape, and is also an important element of landscape design for designers. Water exists in nature, whether static or dynamic, which can give people a pleasant sensory experience and play an important role in public aesthetics. Water landscape refers to the construction of a structure with special ornamental properties by means of different water bodies. In the process of landscape design, in addition to realizing the coordination between water and natural environment, it also needs to rely on the self-purification ability of water body to play a greater role in landscape design. Designers will generally design the landscape according to the shoreline of the water body, with the help of water bodies with different directions. When necessary, they will add more aesthetic elements which are integrated with the water body to enhance the value of ecological aesthetics in landscape design.

### **3.3 Cultural landscape**

Generally, in urban landscape, human landscape mainly includes rest facilities, landscape platform, trestle, popular science exhibition hall, hydrophilic platform and other infrastructure. At the same time, with the help of cultural landscape, designers also need to consider that the design of relevant landscape can not affect the entire urban ecosystem, try to select some ecological materials, so as to achieve the harmony between cultural landscape and the overall landscape. Therefore, while designing for cultural landscape in related fields, we should pay attention to the role of cultural landscape in different landscape areas, deeply study the historical significance behind cultural landscape, and maximize the role of cultural landscape. In addition, relevant departments should cooperate with relevant local cultural departments to analyze the cultural landscape factors in different regions and apply different factors to landscape design. In this process, the relevant departments should make full use of the relevant elements of ecological aesthetics, while giving full play to the decorative role of cultural landscapes, use the corresponding ecological aesthetic elements to add corresponding elegance to different landscapes, greatly enhance the public's appreciation, and lay the foundation for the landscape design of relevant departments.

### **3.4 Plant landscape**

In different urban landscapes, people apply different plant landscapes to different scenic spots by means of plant landscapes, which can not only play an ornamental role, but also help related fields, adjust the small-scale climate of plant landscapes, improve the environment of different regions, and provide a good survival for human living. Environmental Science. At the same time, the residents can not only adjust their mood, but also fully mobilize their imagination and enhance their perception of beautiful things by viewing the plant landscape. At the same time, the designer in the urban landscape, the introduction of the corresponding plant landscape, first of all, need to take into account the coordination between the various landscapes, through the way of adapting to local

conditions, select the appropriate plant landscape for different landscapes, and place it in different locations, convenient for relevant personnel to watch, not only can enhance the public. The visual effect can also play a regulatory role of plant landscape and enhance the stability of the ecosystem to a certain extent. Therefore, in the urban landscape design, the designer carefully prepared the plant community, can create a multi-level and ecological landscape for the entire landscape area, bring good visual effect for visitors, and promote people's ornamental level more abundant.

#### **4. Application value of ornamental plants in urban landscape design**

Introducing ornamental plants into urban landscape design is not only for decoration, but also to improve the quality of the entire environment and meet the needs of the public. In urban landscape design, ornamental plants play a major role in two aspects.

First, it effectively adjusts the temperature and humidity in a small area. Temperature and humidity are important conditions for forming a small area landscape. During the life activities of ornamental plants, evaporation and cooling will occur, which can effectively adjust the ambient temperature in the area. Under normal circumstances, ornamental plants will absorb a large amount of heat from the air during the day and release at night, which will help to reduce the temperature difference between day and night and regulate the surrounding temperature. At the same time, ornamental plants are also a kind of humidifier. Through transpiration, it can promote the evaporation of water in the body and release a large amount of water vapor into the air, thus the humidity of the extremely large area.

Second, it has a biological purification function. Ornamental plants have the reputation of “natural oxygen generators”. They can absorb carbon dioxide and release a large amount of oxygen through photosynthesis, which is beneficial to improve the air quality of small-area landscapes and form a healthy outdoor space. At the same time, ornamental plants can absorb the chemical substances in the surrounding environment, and through a certain process, the related chemical substances are degraded, which plays a strong role in sewage discharge.

In addition, ornamental plants also have the function of eliminating noise. Due to the diversity of the foliage of the plant, it has a diverging effect on noise from one direction. Plant leaves can also effectively adhere to suspended particles in the air to achieve the role of clean dust.

#### **References**

- [1] Luo Y. J. (2016). Research on Landscape Design and Construction Management Technology of Residential Areas in Residential Areas, *Green Science*, 7 (13), 228-229.
- [2] Jiang W. J. (2014). Application of Ecological Aesthetics in Plant Configuration of Slope Lands--Taking the Landscape Design Project of Wanzhou Liangzhu Meizhou Chapel as an Example. *Chinese Horticulture Digest*, 30 (5), 30-131.
- [3] Bao Z. X. (2008). Landscape Recreation Forest Management Based on Forest Ecology Aesthetics Theory. *Journal of Beihua University (Nature)*, 9 (2), 170-174.
- [4] Luo W. W. (2018). Application of fold ecological aesthetics in fashion design. *Dyeing and finishing technology*, 40 (04), 73-74+87.
- [5] Zhou C. M. (2017). Analysis of rural construction with contemporary Chinese characteristics from the perspective of ecological aesthetics. *Journal of Guangxi Teachers College of Science and Technology*, 32 (32), 45.
- [6] Zhou J. Z. (2008). The Ultimate Thinking of Human Survival--On the Ecological Aesthetic Implication of Han Shaogong's “Mountain Mood”. *Journal of Ankang University*, 20 (4), 59-61.
- [7] Gan M. W. (2016). A brief introduction to the new way of urban wetland park ecosystem construction. *Market Forum*, 38 (3), 29-32.