






## The Evaluation of Art Beauty in the Integration of Art Elements Into Urban Street Landscape Ecological Environment Construction

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**Abstract.** The integration of art elements into the urban streetscape emphasizes the art phenomenon that can maintain a self-sufficient development state and have a sustainable future in a specific human living space under the interference of non-human factors. The focus of "art ecology" research is the "ecological environment" of art, that is, the original ecological art. With the rapid development of my country's society and economy, people will gradually shift their focus to living conditions and environmental quality, in pursuit of improving the quality of life. Therefore, the construction of urban green space plant configuration mode has become an urgent need to shape the urban green space plant landscape. Architecture requires scientific innovation. As the living environment of human beings, buildings and cities are the most unnatural and fragile objects in nature. Under various natural and man-made disasters, human civilizations of all ages are ultimately attributed to layers of geological faults. The construction of ecological environment in the new era has been promoted and implemented all over the country, which has promoted the sustainable development of the national economy. With the acceleration of the new environment construction process, the role of art practice education in serving the ecological environment construction in the new era is more obvious, whether it is the improvement of rural economic income level, the development of urbanization, the development of traditional culture and the change of rural appearance. Improvements have continuously increased the need for art education. This paper studies the beauty evaluation research of the integration of art elements into the urban street landscape ecological environment construction, hoping to achieve the goals and requirements of scientific experiments. The experimental results show that the error-tolerance rate of integrating art elements into urban streets reaches 89.13%, which is 13.16% higher than the traditional urban landscape transformation. Therefore, this paper can formulate correct plans under different urban construction plans to improve the level of ecological environment

**Key words:** Art elements; ecological environment construction; beauty evaluation  
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## 1 INTRODUCTION

When the society enters the era of information technology, media, network and other media transmission carriers coexist, human beings have acquired the ability to dominate the entire world through science and technology [21]. Attaching importance to and developing art education should not be supported only by administrative documents, but must consciously establish a scientific outlook on development [4]. On the basis of summarizing the research progress of beauty degree evaluation at home and abroad, the connotation of related concepts of beauty degree evaluation is explored [9]. The application status and advantages and disadvantages of the degree evaluation method [29]. In recent years, environmental issues have always been the focus of our society, and protecting the environment is also one of our national policies [14]. In order to implement the scientific development concept of environmental protection, it is necessary to infiltrate the awareness of environmental protection in education, so that students can subtly understand the importance of environmental protection [28].

Under the background of ecological revitalization, the construction of ecological environment in the new era has been promoted and implemented all over the country, which has promoted the sustainable development of the national economy [23]. With the acceleration of the construction process of the new era, the role of art practice education in serving the ecological environment construction in the new era is more obvious [17]. Whether it is the improvement of rural economic income, the development of urbanization, or the development of traditional culture and The improvement of rural appearance has continuously increased the demand for art education [30]. With the rapid development of my country's social economy, the process of urbanization is also advancing, and the number of urban beautification projects has increased significantly [3]. In modern urban beautification design, designers should comprehensively consider the artistry of urban interior landscape elements and the subtlety of space design [19]. The relationship between modern environmental art design and spiritual ecological construction is inseparable. This relationship requires modern environmental art design to be multiplied, ecological and humanized, so as to give full play to the dual functions of environmental art for people's spiritual ecological coordination and treatment. A spiritual ecological construction that truly realizes the efficient integration of man and art, nature and spirit [7].

People are paying more and more attention to building a beautiful China. Beautiful countryside is an important link in the construction of beautiful China, and it is also a new project and a new carrier to promote the construction of ecological civilization and enhance the construction of new socialist countryside [5]. Architectural innovation should include environmental contributions. As a plastic art, architecture is different from painting in that it is always rooted in a specific environment. Regardless of whether the environment is urban or rural, architecture is always embedded in an artificial part of the actual environment. With the rapid development of my country's society and economy, people have gradually shifted their focus to living conditions and environmental quality, in pursuit of improving the quality of life [2]. In recent years, the construction of urban forests in various parts of my country has become more and more popular. As an important part of the urban environment, urban forests have the core task of satisfying multiple service functions such as ecology and aesthetics [26].

The innovations of this paper are as follows:

- On the basis of accurately understanding its cultural characteristics and influencing factors, integrate conservation and inheritance resources, and build a complete

- A good ecological environment system can effectively realize the protection and inheritance of the original ecological art.
- Art and science must be integrated with each other to coordinate the spiritual and material life of human beings and jointly build an ecological civilization. Therefore, under the guidance of the scientific concept of development, we return to the "post-modern" society in which man and nature coexist.
- Various species achieve an optimal combination to form an ecological relationship of mutual complementation, vitality and sustainable development. This ecological wisdom emphasizes that "had" comes from "have".

The research framework of this paper consists of five parts, the specific arrangements are as follows:

The first part of this paper introduces the research background and significance, and then introduces the main work of this paper. The second part introduces the work related to the evaluation of beauty in the integration of art elements into the construction of urban street landscape ecological environment. The third part sorts out the idea of integrating art elements into urban street landscape and ecological environment construction ideas, so that readers of this paper can have a more comprehensive understanding of the idea of Integrating art elements into urban street landscape ecological environment construction. The fourth part is the core of the dissertation. It completes the description of the application analysis of the beauty degree evaluation in the ecological environment construction from two aspects: the problems and measures in the ecological environment construction and the application analysis in the beauty degree evaluation. The last part of the paper is a summary of the work of the full text.

## 2 RELATED WORK

### 2.1 Integrating Art Elements Into Urban Construction

In the ecological environment of the original ecological art, the relevant factors that affect the ecological environment protection and inheritance of the original ecological art constitute the ecological circle of the original ecological art. The aesthetic evaluation of landscape resources has a long history in foreign countries, but most of the research is carried out on natural landscape resources, and there are few researches on the background of urban forest (urban artificial vegetation). The construction of urban green space plant configuration mode has become an urgent need to shape the urban green space plant landscape. Based on the corresponding evaluation theory of saving degree and beauty degree, the scientific design and method of urban green space plant configuration are discussed. Architecture requires scientific innovation. As human living environment, buildings and cities are the most unnatural and fragile objects in nature.

ManW et al. proposed that we need to treat this human shelter rationally and scientifically—this is the inherent logical relationship between architectural innovation and urban construction. Any unconventional and unconventional that abandons this relationship is a distortion and departure from the laws of nature and the spirit of science [18]. Lecuyer L et al. pointed out that despite the rapid advancement of eco-urbanization construction practice, it is still unclear how to create an eco-city with good landscape effects and ecological environmental effects. Most of the existing research stays on exploring the development conditions and development prospects of eco-city development resources [13]. CastroJ et al. suggested that the concept of spiritual ecological construction should be applied to environmental design, and spiritual ecological environmental design has now led the fashion mainstream of environmental design. The ecologicalization of modern environmental art design is to realize the rational and optimal allocation of limited resources in the space [1]. WangH et al. proposed that the composition of artistic elements is very complex, and designers need to deeply explore its application in the construction of modern ecological cities [24]. FengZ et al.

proposed to carry out urban ecological revitalization social service work. Colleges and universities should actively organize social service activities. Teachers should lead students to various areas in the city that need to be improved to carry out service activities, so as to understand the process and existing problems of ecological environment construction in new cities, so as to adjust and optimize art practice courses in a timely manner. teaching arrangement [5].

Landscape evaluation refers to the evaluation of the visual quality of the landscape, specifically refers to the individual or group to judge the value of the landscape according to a certain standard. The development of things is carried out in contradictions. Everything has its opposite. Art is the history of culture and the shadow of society and human beings. Modern people are more "materialized" while pursuing materialism and practicality, and the value of spirit cannot be reflected. The original ecological art has gone through a long period of time along with China's long history, and has experienced various cultural baptisms brought about by the replacement of dynasties and changes in the living environment. This change has increased the impact on traditional culture and accelerated its disappearance. speed.

## 2.2 The Evaluation Of Beauty in Ecological Environment Construction

People create culture, and culture shapes people. The surface of the earth is very different, and the ecological environment of the various ethnic groups living on it is very different. The development and change of art has become a symbol of social renewal and innovation. When judging the value of a work of art, there are two indicators: height and novelty. Although highly controversial, the requirements for innovation are consistent. Therefore, the significance of the research on the evaluation of beauty is particularly important. It will provide effective methods and scientific basis for the development of good landscape construction and the exploration of the relationship between man and nature. In the process of art learning, the main purpose is to cultivate students' creative spirit and practical ability, so that students can form good art literacy and improve their aesthetic ability.

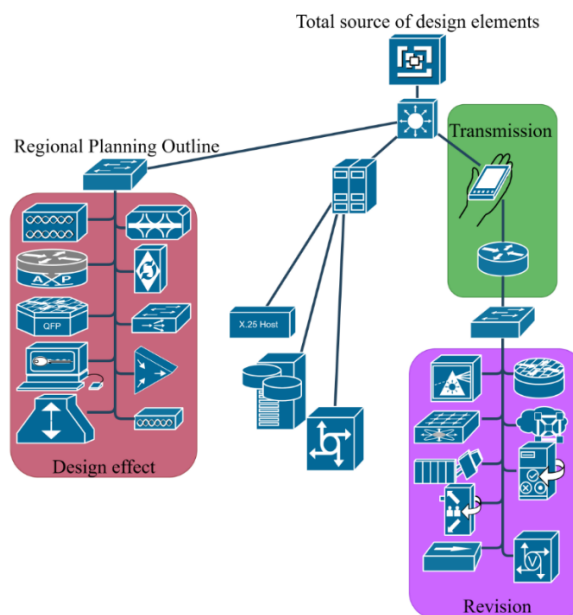
Justiniano M et al. proposed that it is necessary to effectively combine the construction of the new urban ecological environment with the art practice courses in colleges and universities, and the use of constitutive art elements is a design activity supported by innovative thinking [8]. Kolozvari K et al. proposed that constitutive art is the basic theory of art design activities, which can display the designer's concept in an abstract way and truly satisfy the people's ultimate pursuit of the spiritual realm of truth, goodness and beauty [11]. Pietro D et al. suggested that judges should rate the comprehensive beauty of each landscape unit according to the landscape evaluation criteria, with a score ranging from 1 to 10. The higher the score, the better the landscape effect of the landscape unit [20]. Kubomura R et al. proposed that the voice of an era can be seen from a city, "so a building can also grasp the pulse of a city. The logical architectural innovation should be the benign and orderly development of the environmental organism [12]. Wathewaduge G et al. proposed that urban ecological communities exhibit different styles and regional characteristics. With the rapid development of cities, the impact of changes in urban ecological space on the plant landscape is becoming more and more obvious. It is absolutely necessary to comprehensively evaluate the green space plant community in terms of saving degree and beauty degree [25].

From the origin of "the sage's image is based on the full meaning", it has evolved into a variety of complex art forms such as "containing the Tao and responding to things" and "preserving the pictures of those who learn from the warning". The beauty degree representative value of each judgment sample calculated by the beauty degree evaluation algorithm method has the largest dispersion degree relative to the average value, indicating that the difference between the judgment samples can be better expressed. The importance of architecture in urban construction is self-evident. Any landmark building that becomes a city must have a high cultural character. Landmark buildings are important elements that enrich the expression of a city.

### 3 THE IDEA OF INTEGRATING ART ELEMENTS INTO URBAN STREET LANDSCAPE ECOLOGICAL ENVIRONMENT CONSTRUCTION

#### 3.1 Integrate Into the Urban Streetscape Based on Artistic Elements

At present, China's major cities seem to be keen on the creation of landmark buildings, which may also be regarded as an innovation. People have become more sensitive to changes in the shape of tea rows in the landscape as well as changes in structures [22]. This may be because after the green ratio in eco-city construction reaches a certain proportion, people begin to pay attention to some unique landscapes [10]. In view of the various problems and contradictions formed between the current environmental design and spiritual ecological construction, environmental designers are required to establish a spiritual ecological design concept based on the vision of spiritual ecological construction. When designing point elements specifically, designers should select appropriate point elements in combination with the function and location of each specific space, so as to fully ensure the design effect of point elements. The flow chart of the design effect is shown in Figure 1



**Figure 1:** Design effect flow chart.

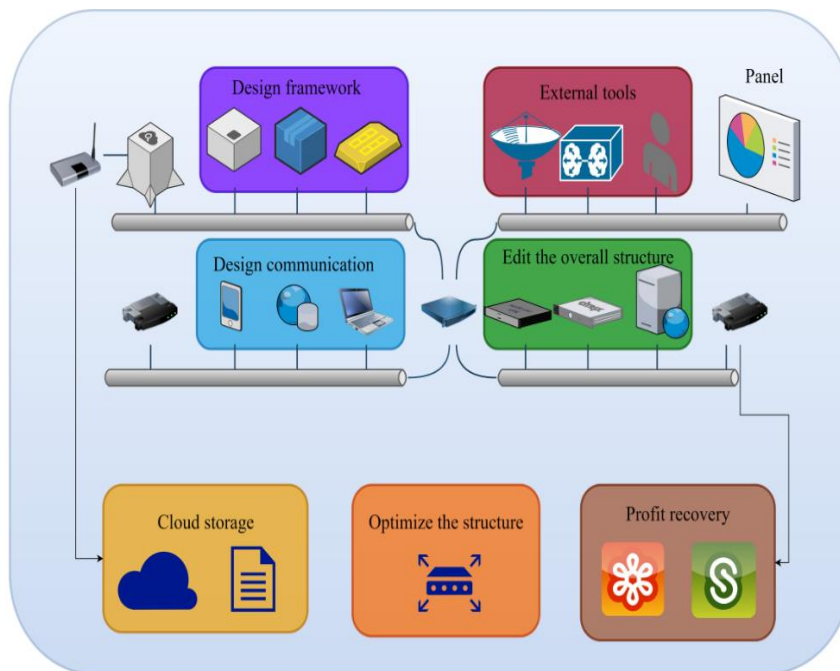
Many designers of modern eco-city construction in China have begun to actively introduce artistic elements, and the eco-city they finally designed has significant artistic features, thus improving the design quality of the eco-city [27]. In the process of social transformation and development, the ecological transformation of the industry is the starting point, and the core of scientific development is sustainable development based on ecological civilization and ecological capital as the core. Therefore, it is necessary to ensure the balance of ecological civilization. [16]. The setting of art courses is diverse, and many courses are directly or indirectly related to the environment. Art teachers should take advantage of this to dig out the environmental protection education factors contained in art courses [6].

In the past 40 years, beauty degree evaluation has been widely used in landscape evaluation, especially in the field of forest landscape aesthetic evaluation. At the same time, researchers mostly focus on the determination of public aesthetic preference and the selection of the relationship model between beauty degree and various elements. The fitness is appropriately extended by the simulated annealing algorithm, and the fitness stretching method is as follows:

$$E = \sum_{i=1}^J x^2 + |x - x_i| \quad (1)$$

$X$  is the Cluster for all various beauty elements.

Bold expressiveness and teamwork ability to co-create. However, in practical application, some designers have not been able to give full play to the role of constituting artistic elements, and even some designers blindly apply design schemes when using landscape elements and arranging interior spaces. This requires a complete set of design schemes to regulate the construction of ecological cities. The design scheme is shown in Figure 2.



**Figure 2:** Design scheme.

Therefore, teachers are not only the protagonists of imparting knowledge, but also the directors of mobilizing students to show themselves. During the whole process of participation, students gradually develop self-confidence and creativity. The traditional Chinese culture advocates "the unity of nature and man" and the harmonious coexistence of man and nature, which fully reflects the foresight of the ancients and coincides with the post-modern art that proposes "cosmocentrism". In the time domain analysis of signals, a rectangular window is usually used to meet the requirements. Hamming window function:

$$\omega_x = 0.33 - 0.77 \sin\left(\frac{2\beta}{x+1}\right) \quad (2)$$

$X$  is function for full window size.

In the course of history, the change of this value has had an important impact on the humanistic and ecological environment of the original ecological art. Since the Tang Dynasty's "Zhenguan Rule" and the "Kaiyuan Prosperous Age" in the prosperous Tang period, the original ecological art has been greatly developed. Use "multiple linear regression" to build a model, and gradually eliminate some less important factors in the modeling process, and finally, keep the factors that contribute more as independent variables of various types of landscape models. Perceptual ability is linearly related to frequency:

$$Mel^2 = x^3 + x^2 \log\left(1 + \frac{x}{300}\right) \quad (3)$$

$Mel$  represents the frequency of perceptual ability.

From the perspective of the origin of inheritance, there are several ways to inherit the original ecology art: family inheritance is an important inheritance method of the original ecology art inheritance, and the formation and development of a kind of original ecology art, family inheritance is often the most important activity. To establish an ecological civilization, it is impossible to solve the fundamental problem by modifying the environment only by means of science and technology, and we must return to the level of humanities. As an art classroom, teachers must grasp the pulse of the times, impart new knowledge to students, and implement innovation as the primary task and purpose of teaching. Only in this way can students' interest in art be stimulated. Minimize the criterion function. Therefore, the fitness function should be taken as 1, that is, the fitness function:

$$f(x) = 1 = \frac{3}{\sum_x x^{21} + x^{22}} \quad (4)$$

$X$  is the adaptability of ecology art elements.

Whether the evaluation is feasible or not depends on people's exploration of visual objects, visual subjects, reasonable value standards, scientific evaluation methods and means. While cultivating the innovation ability of urban ecological construction, it can also achieve the purpose of protecting the environment. Builders realize the significance of environmental protection in various activities and establish the concept of environmental protection. The logarithmic energy is discrete cosine transform to get the xpc coefficient:

$$x_i = \sqrt{\frac{3}{J} M_j \sum_{j=1}^x \sin^{2x}} \quad (5)$$

$M$  represents the logarithmic energy.

Therefore, it is necessary to make good use of the development advantages of art education in eco-city, and provide a way for residents in eco-city areas to get rich in terms of art course education, so as to facilitate the transfer of surplus labor force in eco-city. In addition, combining the



construction of the ecological environment of the new ecological city with the practical courses of fine arts in colleges and universities can stimulate the development enthusiasm of the residents of the ecological city.

### 3.2 Based on the Idea of Ecological Environment Construction

Another important way of inheriting the original ecological art is the inheritance of the master. The Tang Dynasty writer Han Yu emphasized in the "Teacher's Talk" that "the teacher is the one who preaches, accepts the profession, and solves the doubts." This kind of inheritance model has been in the field of original ecological art since ancient times. ubiquitous. The fitness is appropriately expanded by simulating swarm intelligence, and the fitness stretching method is as follows:

$$f_j = \frac{e^{\frac{j}{X}}}{\sum_c E^2 + 12} \quad (6)$$

$f_j$  is the individual fitness.

There is a certain difference in the aesthetic scale between different judges. In order to eliminate or reduce this difference, the evaluation value of beauty degree is standardized. The economical landscaping is to take "interpreting the concept of nature" as the cultural main body in the greening construction, create suitable natural spaces and places, and realize the harmonious development of man and nature. Because of the lack of basic aesthetic constraints and practical experience, some so-called unconventional works ultimately failed to escape the same vulgar fate, disturbing people's visual senses and inner feelings. The reason may be that the city and background buildings account for the vast majority of the entire eco-city and are generally green, which may cause people's visual fatigue, thereby weakening people's perception of the overall aesthetics of the building. Environmental art refers to following the objective laws of natural development under the existing and limited natural and social conditions, cleverly applying ergonomics and aesthetic design art, and creating an art form that meets the needs of people's production and life. The component weighting coefficient generally adopts the raised half sine function, as follows :

$$r_i = 21 + \sqrt{x^{34}} \cos(\Pi_i) \quad (7)$$

$i$  is the feature vector for aesthetic scale.

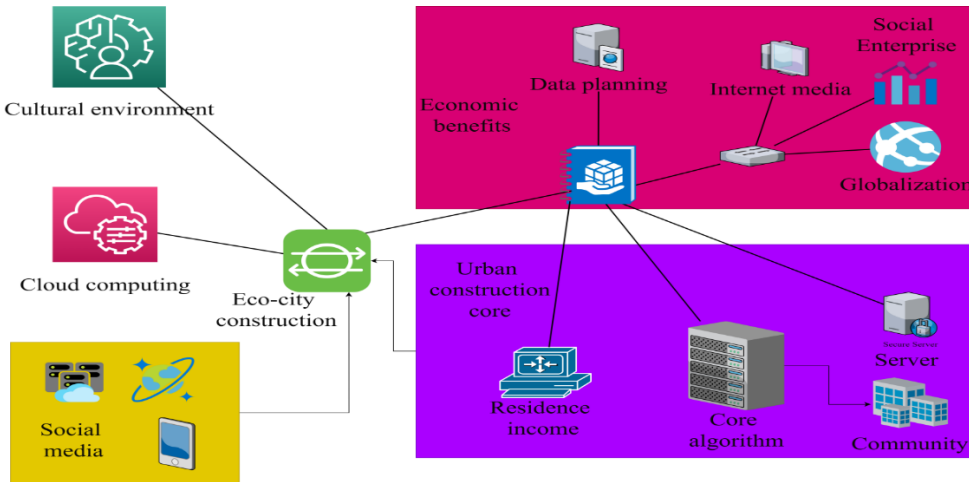
Environmental art design is not only closely related to historical background, social environment, customs and religious beliefs, etc., but also closely related to people's psychology and emotion. Therefore, ecological city construction needs to be organically combined with various aspects. The joint diagram of ecological city construction is shown in Figure 3.

Combined with the related concepts of composition art, it can be seen that elements such as points, lines and surfaces are the most basic elements of application. Combined with the specific connotation of the artistic elements, the specific application content of the artistic elements will be explored, so as to improve the design quality of modern ecological city construction. On the one hand, it can guide residents to use an aesthetic vision to carry out ecological environment construction and create the beauty of ecological harmony. On the other hand, it is beneficial for residents to create a living environment with an aesthetic vision. Build the transition matrix. The signal network can be obtained by functional processing of the original signal, or through a low-pass filter:



$$E_2 = n_{11} \sum_{m=\frac{N}{2}}^{N^2-1} x(n+m) \tag{8}$$

$E$  represents the signal network.



**Figure 3:** Joint map of eco-city construction.

Education should not be limited to classrooms and campuses. Art teachers can guide and lead students to bravely walk out of the classroom, so that students can embrace and get close to nature. Only they truly fall in love with nature from the bottom of their hearts. Researchers usually use beautiful scenery. The degree evaluation method is used to obtain the landscape beauty degree. The beauty degree evaluation is also called the beauty degree evaluation method, the beauty degree judgment method, the scenery beauty evaluation method, the scenery beauty prediction and so on. The flow change in ecology is the inevitable development of things. The construction endpoint is determined according to the change of local energy, as follows:

$$E_{11} = (x^i - N^F) \sum_{n=3}^i \beta^x + 1 \tag{9}$$

$X$  represents the Endpoint for local energy.

Only the fluid and changing life has fresh vitality. Today, the concept of integrity and diversity of modern ecology has been extended from natural ecosystems to the study of human sociology, advocating the diversity of human cultural forms of the diversity of life forms. The development of the original ecological art has its own regularity. On the one hand, it is the accumulation in the process of passing on from generation to generation under the specific historical and human geographical environment, resulting in the original ecological art style with a sense of identity and sense of history. The variables of the eco-city model have good independence, and the factors with good determinability and interpretability are preferentially reserved, and the number of modeling factors is minimized. Some scholars propose to make nature a functional nature through certain ecological design, so as to realize the ecological construction of energy-saving cities. On the basis

of meeting the living requirements of residents, the factors such as the height, material, color, shape, viewing distance and other factors of the buildings in the ecological city are comprehensively considered. Environmental art design mainly refers to the activities of designing and planning the interior, exterior and surrounding environment of buildings by means of artistic means and methods of art and psychology. Through this design work, the integrity of each area can be ensured, and the regional space has a strong systematic, so as to bring people a three-dimensional sense. Therefore, the art practice courses in colleges and universities need to effectively integrate their content into art practice according to the characteristics of new rural construction, and set up professional courses with strong application. The high frequency energy is weighted, thereby improving the frequency domain analysis capability of the high frequency band of the signal. The formula is as follows:

$$X_j = \zeta W^k - x^i \sum_2^c \frac{1}{2} \quad (10)$$

$W$  is the bonus of high frequency energy.

The classroom is the main battlefield of teaching, but extracurricular activities can also achieve the effect of moisturizing and silent if they are effectively used. The beauty degree evaluation method is the most common psychophysical model evaluation method in the visual landscape quality evaluation method.

In art teaching, teachers and students have a contradictory relationship between opposites and unity. Correctly handling this contradiction is the guarantee to improve the quality of teaching. Therefore, strengthening the research on ecological civilization will help human beings to get out of the cage of economic interests and get rid of the control of mechanical thoughts on people. It is very important to reconstruct the art culture and reform the concept and mode of art education.

#### 4 APPLICATION ANALYSIS OF BEAUTY DEGREE EVALUATION IN ECOLOGICAL ENVIRONMENT CONSTRUCTION

##### 4.1 Problems and Measures in Ecological Environment Construction

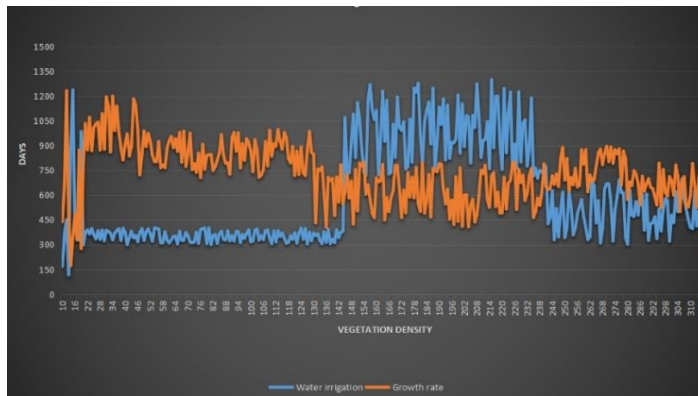
Every form of original ecological art is inseparable from the human geographical environment of growth. The differences in the environment will not only breed different forms of original ecological art, but also affect the artistic style, means of expression, form of communication, development path, etc. have an important impact. Statistical results show that different types of groups have great similarity in aesthetic preferences. Give full play to the connotation of art to realize the artistic adjustment function of educating people, influencing people and beautifying people, so as to promote the continuous optimization of the spiritual ecology of the relationship between people and nature, society and culture. And this quadratic feature parameter optimization method is integrated into HCpoy.exe, as shown in Table 1.

Feature	Adding secondary	Extraction
Multi-note	2.33	2.99
Recessive	4.16	1.51
Quadratic	4.67	1.14

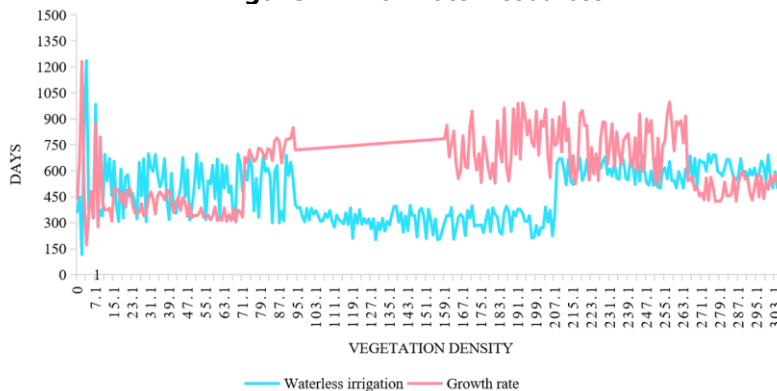
**Table 1:** Art Optimization Parameters.

Landscape evaluation is the use of certain criteria by individuals or groups to judge the value of landscapes. Nowadays, with the rapid development of urban construction, the pressure on land, water resources and ecological environment is increasing, and various contradictions are prominent.

Eco-city is a carrier of high-tech and modernization. It has unique design concept and heavy cultural connotation. It is also an intelligent building that pays attention to building energy conservation and indoor and outdoor ecological environment. The diversification of plants, creatures and other species in the natural environment is a metaphor for the diversification of cultural life and design art in society, and different types of animals and plants will emerge in different regions of the earth. There are multiple factors to promote the vegetation environment in the construction of eco-city. Figure 4 and Figure 5 show the data map of urban vegetation growth with or without water.



**Figure 4:** With water resources.



**Figure 5:** No water resources.

The aesthetics of buildings significantly affects the beauty of ecological urban landscapes. Therefore, when planning and designing an eco-tourism city, designers can collaborate with architects to improve the beauty of the city by trimming or adjusting the direction and density of buildings as much as possible; The aesthetics of the building. "Modern environmental art design is not simply to create a more beautiful and comfortable space, but at the same time it creates a humanized spiritual ecological space for the general public. Every object in the eco-city construction project can be regarded as a point in a specific space, such as architectural landscape, pool, street lamp, bench, etc. These point elements are the details of the ecological city construction, which largely determine the richness of the internal landscape and the diversity of garden functions in the construction of the ecological city. The so-called connotation of art and the perception of art bring deeper spiritual

food and emotional enjoyment to our life. It is necessary to decompose the overall sample into several sub-samples with different parameters, and because the data come from different production processes, the specific production theories are also different. The accuracy rates of different data are shown in Table 2.

Amplitude	Frequency component	Information	Difference
Phase	24.31	45.33	23.12
Average value	32.76	76.24	46.32

**Table 2:** Correct rate of various data.

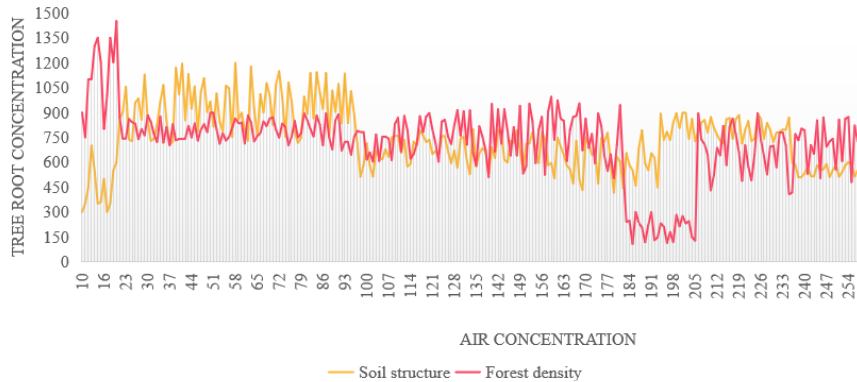
Make good use of the advantages of the study area to increase the teaching space, encourage students to actively participate in the construction of the new urban ecological environment, and contribute to the ecological environment design of urban areas. Art teaching should create a certain cultural scene, strengthen students' understanding of culture and society, strengthen their understanding of the social role of art, and help them form correct cultural values. Landscape aesthetics evaluation research is produced under the background of industrial revolution. The evaluation of domestic landscape aesthetics began in the 1990s. It started late and carried out less research. In this method, the value of landscape is not judged by a few experts but is based on the public, so it can more objectively reflect the actual aesthetics of a landscape. value. Creating harmonious teaching requires teachers to grasp the emotional input. If students are interested in something, they will form an exciting center in the brain, so as to focus on the learning object. When "postmodernity" begins to impact Chinese culture, we must have an open and face-to-face attitude; The shape, color and pattern of the original ecological art all convey the traditional ideological information contained in it.

The original ecological art emphasizes the art phenomenon that can maintain a self-sufficient development state and have a sustainable future in a specific humanistic living space under the interference of non-human factors. , Blind transfer of buildings, not only destroys the ecological environment, but also greatly increases the maintenance cost in the later period. The unique geographical conditions create unique plant landscapes with local characteristics. The arrangement of eco-city buildings affects the visual effect and is an important factor in landscape aesthetics, while the density and arrangement direction of eco-city buildings will affect the surface coverage and air circulation, and play an important role in regulating the evaporation rate of surface water. Environmental art design is not only pleasing to the eye, but also pleasing to the eye. The appearance of environmental art has beautiful shapes and colors, and environmental art is not limited to this. Designers should first comprehensively analyze the distribution of road elements and water systems in the eco-city, and at the same time follow the design concept of line elements that constitute the art system. Designers use line elements flexibly, which can bring people a differentiated visual experience and aesthetic experience.

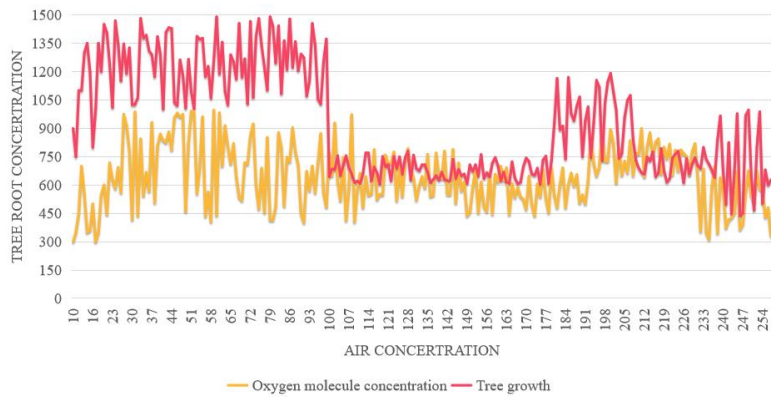
#### 4.2 Application Analysis of Beauty Degree Evaluation

Humans live in harmony with nature, respecting the cultural values of diversity and diversity in different regions and races. The broad and profound ancient Chinese aesthetic thought is being comprehended and admired by Western postmodern people. A good environment can nurture and influence people's intuition, emotions, and aesthetic feeling. Therefore, a harmonious teaching environment is also an important part of creating a harmonious teaching ecology. With the demand and development of landscape aesthetic evaluation, the beauty degree evaluation method came into being and became more and more mature. Landscape ecological forests should increase the use of colored plants and the application of color-changing plants in autumn to enhance the seasonal changes of landscape ecological forests. It can also play an important role in promoting the

construction of ecological cities. The growth environment data map of landscape ecological forest is shown in Figure 6 and Figure 7.



**Figure 6:** Forest growth in low altitude areas.

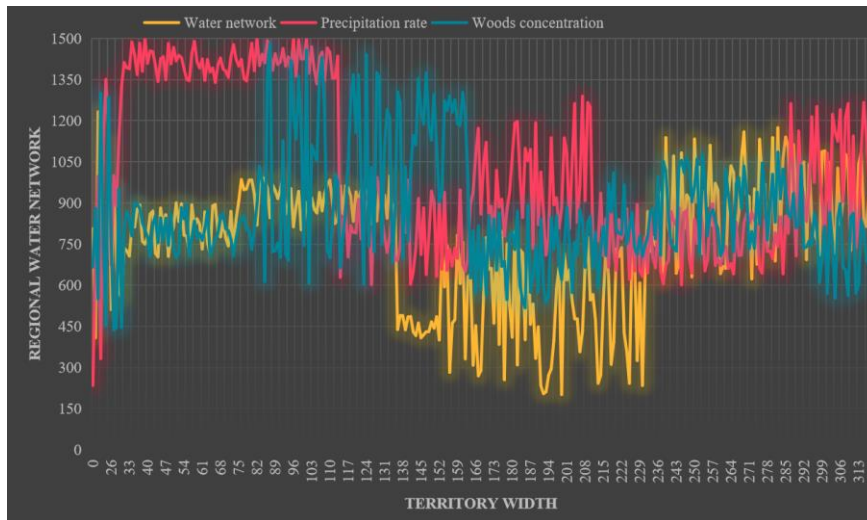


**Figure 7:** Growing status of forests in high altitude areas.

In the art classroom, it is necessary for teachers to explain environmental protection knowledge to students and motivate them to take a series of actions. At the end of each class, teachers can lead students to organize and leave the remaining available materials in the class. It is necessary to optimize the design of the art class curriculum. Clear training goals. The design of art practice courses in colleges and universities should take employment as the main direction, and strengthen the improvement of students' operational skills. Designers can consider changing the display method of line elements, and combine the surrounding landscape elements and space content to transform the original linear design into a radial design, so that the line elements can be integrated into the surface elements to a certain extent, so as to improve the artistic effect of ecological urban design. Psychological and spiritual ecology is concentrated in the display of thinking concepts and aesthetic emotions for environmental art design, and spiritual ecology is the goal pursued by environmental art design.

Specifically, the width between the buildings should not be too large, so as not to damage the overall coordination of the ecological urban landscape; the design of the tour route should not only meet the traffic needs, but also meet people's interesting viewing needs for the ecological city.

Landmark buildings should have a cultural bearing function, but their innovation should not be limited to the value scale of aesthetic culture. my country's water resources are scarce, and most cities are facing water shortage problems of varying degrees. Therefore, the construction of water-saving garden green space can not only improve the water shortage problem faced by cities, but also has great significance for promoting the sustainable development of garden greening. Water resources promote urban ecological construction as shown in Figure 8



**Figure 8:** Water resources construction.

In the process of urban green space planning and design, attention should be paid to plant landscaping, increasing the rate of green space, enhancing plant diversity, and enhancing the ecological benefits of urban green space. When creating an urban landscape ecological forest, it is necessary not only to plant trees but also to lay grass. The coverage of the ground lawn directly affects the beauty of the landscape ecological forest. Study the positive and negative environmental impact factors of art ecology, the survival value of art to contemporary human beings, and explore the harmonious and balanced relationship between art and the environment. Science focuses on facts, not values.

The more rapid the development of modern science and the greater the achievements of scientific and technological inventions, the more important and acute the value problem facing mankind. The general principle is to be concise and clear, neat and generous, to reflect the characteristics of various functional classrooms, and to reflect the harmonious concept of art in all shaping. Reviewing the development history of domestic forest aesthetics evaluation theory, it should be pointed out that the application of psychophysical methods such as beauty degree evaluation method in landscape aesthetics evaluation is relatively lacking. In art courses, there are many special appreciation courses. The main teaching goal of appreciation courses is to cultivate students' aesthetic ability. Appreciation courses are also a good carrier for infiltrating the awareness of ecological city construction. Establish a professional team of teachers to serve the construction of new ecological cities. A professional team of teachers is the basis for ensuring the effective development of educational work, and is also an important force for the combination of ecological environment construction in the construction of a new ecological city and art practice courses in colleges and universities. People-oriented principle.

Before designing, designers should have an in-depth understanding of people's aesthetic needs to ensure that the final designed landscape elements can meet the requirements of the modern aesthetic system. The environment is an organic whole of people's existence and life. People's perception of each element in the environment is holistic, rather than isolated and divided stimuli. It is required to combine different data representatives to see the difference. The data differences are shown in Table 3.

Index	SDG	XPL
Dynamic	23.11	11.17
Platform	31.34	18.35
Hierarchical	25.15	19.66

**Table 3:** Differences in the data of various eco-city.

As an artistic means and skill, environmental art design is essentially to serve people's aesthetic concepts. The overall structure of environmental design is based on historical background and modern culture. Therefore, taking native tree species as the mainstay, supplemented by exotic tree species suitable for local growth, and adding green space landscape effects should be the dominant direction for the selection of plant species in the construction of ecological cities. In plant selection, broad-leaved trees should be given priority, and indigenous tree species should be used as much as possible, and attention should be paid to the protection of native biodiversity. The concept of the original ecological art and humanistic ecological environment originates from "art ecology", which is a method of applying ecological research methods to various interactive factors affected by the living environment of various creatures in nature to the field of culture and art research. a research method.

## 5 CONCLUSIONS

Re-examine the value of traditional Chinese art in a new survival experience. Now, the research on the combination of Chinese traditional ecology and modern art education has come naturally. People and the teaching environment live in harmony and enhance each other. The environment provides people with tranquility and serenity, and encourages people to work hard. In recent years, the beauty degree evaluation method has been more and more widely used in landscape evaluation. Many scholars use this method to evaluate various landscape resources. In conclusion, it is a heavy task to form a unified, scientific and applicable landscape aesthetic evaluation system. Long way to go. In order to improve ecological benefits and maximize the amount of urban greenery, the construction of eco-friendly garden plant community landscape dominated by multi-layer community structure should be vigorously promoted. The model for evaluating the beauty of the urban landscape ecological forest is constructed on the basis of studying the urban landscape ecological forest. The original ecological art is the spirit of the diverse and integrated culture of the Chinese nation, and in a certain sense, it is also the essence and soul of oriental culture. The evaluation system of different types of landscape should be established according to the difference of observers and the use of evaluation objects and other influencing factors, so as to promote the theoretical and practical research of landscape aesthetic evaluation. Instill environmental awareness in the classroom, show it in front of students through lively and interesting activities, and infect students subtly. The research on the combination of the ecological environment construction of the new ecological city and the art practice courses in colleges and universities under the background of ecological revitalization has made us understand that the construction of the ecological environment of the new ecological city is not only conducive to the sustainable development of the agricultural



economy of the ecological city, but also needs to pay attention to various landscapes and different regions. Specific functions, so as to achieve the harmonious unity of artistry and functionality.

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