

# Role of Garden art Design in Urban Landscape Design

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**Abstract:** *Adding the concept of garden art design to urban landscape planning can green the environment, meet people's requirements for air quality, and have a certain ornamental effect. This article aims to study the role of garden art design in urban landscape design. This paper adopts methods of investigation and research, multiple sets of case analysis, extensive and comprehensive questionnaires, etc. to analyze and study the current status of garden art design in urban landscape planning and the role of garden art design in urban landscape planning. The impact of urban landscape design, the overall city appearance, the livability and the comfort of residents, as well as the impact on garden art design in the overall environment of urban landscape design. Experimental data shows that modern gardens do not better combine classical art, modern art, and ecological environment, and garden art design has not been well integrated into modern urban landscape planning. Moreover, the garden art design has a good influence on the urban landscape design, the overall city appearance, the livability and the residents' comfort level. This shows that garden art design as an indispensable category of urban landscape design has played an important role in urban landscape design.*

**Keywords:** *Landscape Art Design, Urban Landscape Design, Big Data Analysis, City Livability*

## 1. Introduction

The garden art design is to increase or decrease the terrain, change the ground cover, dig the pool to store water, plant plants with aesthetic aesthetics, and the clever artificial design person is involved in a variety of sensory experiences, including garden art and engineering technology. According to the different external environments, creating beautiful activity spaces according to local conditions and providing citizens with a good living environment have made great contributions to the urban landscape design, urban greening, and the development and construction of urban livability. There are no certain rules for garden art design and urban landscape design, and the way to be carried out is entirely based on the designer's aesthetic and aesthetic conditions under the conditions achieved by the actual purpose of the design. A variety of garden and landscape sketches have been designed to enrich the urban landscape design. Forms and types have played an important role in urban landscape design.

With the further development of the city, the continuous expansion of the city and the continuous improvement of the people's living standards, the population living in the city for a long time continues to grow, and the scope of the city continues to increase, so the demand for urban landscape design continues to rise [1]. Because of the improvement of people's environmental quality requirements, the demand for urban landscape design is no longer just simple and beautiful or individual, but also needs to be green, beautify the city, provide leisure and fitness places for the citizens, improve the city's taste, and increase the city Demand for oxygen supply and moderate urban regulation [2]. At this time, the garden art design is even more important. Garden art design not only provides functions such as beautification and greening for the city as a kind of urban landscape design, but also provides projects such as building green runways, building community parks, and old city renovation, etc. to provide citizens with a good leisure, fitness and relaxation convenience. place. In the public sports and fitness places with beautiful facilities, garden art design, and different styles, residents not only realized aerobic fitness exercises, but also increased happiness, and added bricks to the city 's green and livable development [3].

Han and other scholars analyzed how to design installation art sketches from the perspective of developing installation art and promoting regional culture, while recognizing the importance of regional characteristics, and paying attention to regional cultural characteristics when designing urban space [4]. On this basis, art works in line with regional culture were created. Chen and others found that the concept of sustainable development in modern urban landscape design advocates landscape design, which is the main development direction in the field of landscape design and an effective measure to promote the sustainable development of urban gardens [5]. On this basis, combined with the connotation of sustainable development and sustainable design, the urban landscape design under the concept of

sustainable development was analyzed and discussed.

This article aims to analyze the role of garden art design in urban landscape design. This paper adopts methods of investigation and research, multiple sets of case analysis, extensive and comprehensive questionnaires, etc. to analyze and study the current status of garden art design in urban landscape planning and the role of garden art design in urban landscape planning. The impact of urban landscape design, the overall city appearance, the livability and the comfort of residents and the impact on the garden art design in the overall environment of urban landscape design. Experimental data shows that modern gardens do not better combine classical art, modern art, and ecological environment, and garden art design has not been well integrated into modern urban landscape planning. Moreover, the garden art design has a good influence on the urban landscape design, the overall city appearance, the livability and the residents' comfort level.

## **2. Proposed Method**

### ***2.1. Characteristics of Garden Art Design***

#### **(1) Nature and nature are higher than nature**

Natural landscapes use mountains and water as the basis of topography and landforms, and plants as decoration. Mountains, water and vegetation are the basic elements of natural scenery, so they are also the main elements of landscape architecture [6]. People are among them, as if they are in the middle of a busy city, quiet in the middle of the city, providing people with a convenient place to get close to nature and recuperate.

#### **(2) It is a hybrid of architectural beauty and natural beauty**

In the city, the combination of urban landscape design and urban architecture, corresponding to each other, complement each other, so that no matter how many buildings, regardless of their nature, purpose, function [7]. The garden art design strives to organize the gardening elements of mountain, water, flower and wood organically and coordinate with each other in a series of landscape pictures, highlighting the positive side of each other's harmony and complement each other, limiting the opposition to each other, The mutually exclusive negative sides allow the scenery and objects to blend into one another, making them more harmonious and natural with the city itself.

### ***2.2. Advantages of Garden Art Design***

#### **(1) Garden art can promote physical and mental health**

Natural environments such as forests have a role in promoting or healing health, and garden art design precisely helps people experience the benefits of natural environments in cities [8]. Visual contact with nature is beneficial to the emotional and physical health of urban residents. When people see the landscape designed by the garden art, they will be more comfortable and relaxed, and more energetic than the simple urban landscape. It can be seen that the application of garden art design to urban landscape can help people improve stress, help the autonomic nervous system relax and also increase positive emotions, and even effectively reduce the probability of urban people suffering from mental illness and reduce people's suicidal tendency. Garden plants are not only the core elements of the natural environment, but also an important subject material for garden art landscape design. The landscape types of plants required by garden art design are even more diverse [9]. People's perception of garden landscape space is mainly influenced by plant elements in landscape art design landscape [10]. The expression of plant art space language in garden art design landscapes is mainly composed of different and diverse combinations of its forms. Among them, the form of plants is not limited to the external appearance of plant shapes, but also includes the attitude that designers use plants to convey to the outside world. The artistic conception and cultural connotation of qiyun and emotion can be deeply perceived [11]. Therefore, the external appearance of plants has become one of the main evaluation bases of people's garden landscape. People can be guided through vision to produce different physiological and psychological changes, so people can respond differently to the comfort and beauty of the entire garden landscape space. As a landscape architect, we must first understand and apply the elements of lattice plants in the garden landscape. From the perspective of human optimal suitability and comfort, we should scientifically and rationally configure plants of different shapes to build a healthy and ecological human settlement environment [12]. Garden landscape can also make people recover from stress or mental fatigue in a short period of time, recover physical health from diseases more quickly, and even

improve people's physical and mental health in a long-term range.

(2) The garden art design is beneficial to the urban groundwater system

Due to the progress of society, the pursuit of human spiritual enjoyment is getting higher and higher, so the design water standards of landscape architects are becoming higher and higher, so that landscape architects must repeatedly ponder the various landscape elements in the garden. On the premise that the functional requirements are first realized, a better art design is completed [13]. Therefore, the social, ecological and economic benefits of the garden are more comprehensively expressed. The development of the landscape ecological design framework embodies the importance of the multi-scale approach, which links the site with the surrounding environment and embodies the benefits of multifunctional design for sustainable development [14]. Obviously, this is not available in a single urban landscape design that does not include garden art design. The plant root system of the garden art design landscape enters the underground, which can have a good effect of conserving water sources, can help maintain water and soil integrity, adjust ground temperature and humidity, recharge groundwater resources, have good soil fixing capacity, and effectively prevent the strong winter wind from reaching the surface. Erosion, reduce the invasion of sand and dust, and make no small contribution to the further livable development of the city [15].

(3) Garden art design can inject vitality into the city

The landscape design style often drives urban landscape design, and represents the excellent traditional culture of China and the world-leading advanced technology of garden art design. It has a major impact on urban landscape design and urban style, especially in the inheritance of traditional culture, ecological landscape, and low Carbonized life travel, biodiversity protection and other aspects make the urban landscape more in-depth, more three-dimensional, with historical heritage, and full of humanism [16-17]. Garden art design is widely used not only in urban squares and park green spaces, but also in urban residential areas, primary and secondary schools, kindergartens, ordinary colleges and universities, colleges, scientific research institutes, bridge construction, Jiexin Park, and the design of greening schemes in various communities. After the promotion, the design concept and plan have been improved [18]. Garden art design is a comprehensive art that integrates traditional culture and modern art from other countries, and aims to create a beautiful living environment. It allows people to be in a beautiful and harmonious natural environment, and enjoy life freely and appreciate life. [19]. With the continuous improvement of people's living standards and the rapid development of urban development, people pay more and more attention to the living environment and the surrounding environment of the living place. Garden art design is more important in urban landscape design. Education is the core content of social development. Today, with the vigorous development of education, while the public facilities and infrastructure of colleges and universities are becoming more and more perfect, the design concept of garden art design "people-oriented, return to nature, and care for the environment" is also more important for the campus. The scientific and rational setting of garden landscape has played an important guiding role, not only injecting vitality into the creation of campus cultural atmosphere, but also injecting young vigor and vitality into the city [20].

(4) Garden art design influences sustainable development through its aesthetics

As countries around the world increase their economic development, the world is also ushering in energy and environmental crises almost simultaneously. Based on this situation, the concept of sustainable development was put forward logically, and gradually gained popular support over time and social development. For garden art landscape design applied to urban landscape design, designers should also use this concept as the main direction of design as shown in Figure 1. It can be seen that the aesthetics of garden art design is necessary for people to understand how to perceive the local landscape for landscape ecology and the overall landscape concept of sustainable development. Local landscape perception is unlikely to be limited to short-term land economic judgment, long-term and non-permanent Economic perspectives, including aesthetics, may be more important in local knowledge [21]. Aesthetic perception may reflect people's daily concerns about agricultural productivity or ecological health. Sometimes care can be felt in cleanliness, soil and water conservation, or the obvious nature of the landscape. Demonstrate the prevailing local appreciation of the aesthetic qualities of the landscape and provide objective records of the aesthetic qualities for local planning [22]. Caring may be a global construction of aesthetic qualities, manifested in different forms in different places. If so, it may be beneficial to landscape ecology and sustainable development to determine the form of care and introduce new forms of care. The advantage flow chart of garden art design is shown in Figure 1:

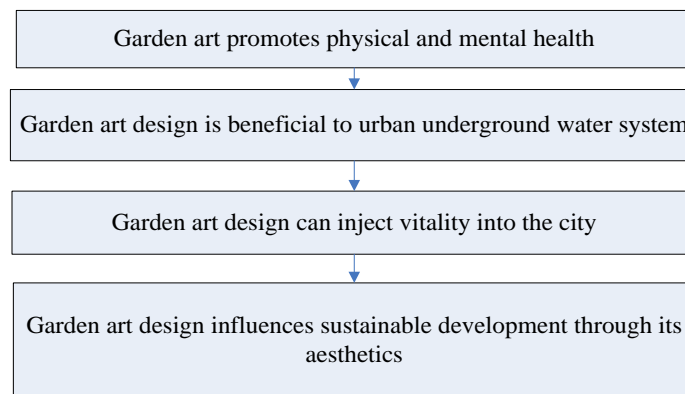


Figure 1: Test histogram

### 2.3. The Application of Garden Art Design

#### (1) Integration of garden art design and architecture in urban landscape design

The function of urban landscape design is ornamental and ecological, and the garden art design is closely in line with it. The quality of garden art design will play a very important role in guiding city construction. Adding garden art design to urban landscape design can make the urban landscape design more vivid and flexible, and can also change the city's natural environment and green ornamental To be better, and to help improve the city's taste [23]. Urban landscape design not only has artistic aesthetic value, but also considers whether the landscape is practical, coordinated with the outside, and compatible with the city's architectural style [24]. Therefore, when designing the urban landscape, whether the style of surrounding buildings and the garden art design are in harmony with each other is also one of the issues that should be considered. Only by taking environmental factors into consideration can we better apply landscape art design in urban landscape design.

#### (2) Modern art atmosphere in garden landscape design

With the deepening of the process of urban modernization, the requirements for urban landscape design are becoming more and more avant-garde. The premise is to follow the footsteps of urban development, which can include traditional cultural elements and modern design elements [25]. Urban garden design is a comprehensive artistic creation, and the integration of modern art can better show the level and wisdom of the designer. It can maximize the beauty of the design and present the best results to the public.

#### (3) Garden art design in the city should be combined with urban development planning

In the design of urban garden art, the most important thing is to be consistent with the urban construction plan. When applying garden art design to urban landscape planning, it is necessary to follow the principles of scientific layout and optimize the landscape resources and related settings to make it more feasible and reasonable. When designing the urban landscape, it is necessary to consider the overall planning and layout of the city as a starting point. It is also necessary to comprehensively, comprehensively and objectively evaluate the various elements in the garden art design landscape to understand their mutual influence and relationship. In addition, in the process of garden art design, you can also combine the urban landscape and the overall layout of the city to set some themes, and design and plan according to a certain theme, which is conducive to improving the efficiency of resource utilization. It is convenient for designers to consider the construction environment and regional characteristics of the garden, and then design and scientifically arrange the garden art landscape in a regular, natural, and hybrid manner. Natural ecology is an important content in garden art design, and plants are the main content material. The quality of garden art design landscape has a great relationship with the plant configuration, so it should try to help garden art design to exert its artistic characteristics and scientificity. In the selection of plant types, we must pay attention to diversity, suitability and aesthetics, but also consider the local climate and living environment, people's preferences, traditional cultural customs, etc., so that we can adapt to local conditions, so as to better achieve improved lives The role of the environment. When arranging plants, in addition to highlighting the primary and secondary points between plants, it is also necessary to integrate the natural characteristics of plants and to

coordinate with the design content of water bodies, rocks, sunlight, sculptures, etc., to highlight the uniqueness of garden art design Style and unique natural beauty.

#### ***2.4. Problems in the Development of Garden Art Design***

Garden art design is not the same as simple greening. When planning and constructing urban building facilities and urban landscape design, simply using simple greening methods cannot meet people's requirements today. If only common trees and plants are used in urban construction and large-scale greening is carried out flatly, it cannot be called garden art design. It is necessary to carry out more diverse, rich, and larger-scale garden art design, so that organic integration with architecture, city, and external environment can make garden art design more colorful. However, from the current status quo, compared with modern garden landscapes, China's traditional garden landscape design forms and subject types are too singular, and lack of innovation in design concepts, it has been difficult to adapt to urban landscape design for modern garden art design demand. This requires the designers of garden art not to limit their eyes to a single design, but to combine multidisciplinary characteristics, through the external expression of landscape garden art design, express the cultural connotation of the design works, to achieve the feeling in the scene, touch the scene, The artistic conception of the scene blending. The urban landscape is dominated by sketches and sculptures. The sculpture condenses the spatial points of urban design and can effectively render the urban greening and festive atmosphere. Aiming at the structural steel frame, Green Carving uses cultivated art, combining flowers and various shapes to make the artwork more energetic and vital. Garden design has not only been promoted in parks and squares, but also has been well applied in urban housing, elementary and middle schools, scientific research institutes, and junior colleges. The design technology is gradually improving. Therefore, in the current time of vigorously inheriting education and developing technology, the school's basic equipment and public facilities have been greatly improved. Garden design must take nature return, people-oriented and environment-friendly as conditions for promoting urban landscape design, so as to build urbanization Inject new energy.

### **3. Experiments**

#### ***3.1. Research Background***

Requirements of garden art design in urban landscape design

1) Scientific layout. Layout as a key step in garden art design, in addition to combining the conception and overall requirements of urban landscape design, various factors must also be comprehensively evaluated. During this period, landscapes can be the theme, as well as flowers, grass and historical culture. In terms of formal typesetting, it draws on the ancient Greek and Western Asian styles of Chinese gardens and the three major gardens in the world, integrates the forms and cultural forms of different intervals, and uses multiple forms such as nature, rules, and mixture.

2) Do a good job in plant configuration. Natural ecology is an important content of garden design. Plants have always been the main material for design, and the landscape effect is directly related to the quality of the configuration, so it must be helped to exert its artistic characteristics and scientificity as much as possible. When arranging plants, in addition to the distinction between primary and secondary, it is also necessary to integrate plant characteristics and coordinate with the design content of water bodies, rocks, sunlight, sculptures, etc., to highlight the style and characteristics of garden design.

#### ***3.2. Experimental Setup***

(1) Investigating the bias of 100 garden art designers and 100 urban landscape designers in the design process;

By investigating the bias of 100 garden art designers and 100 urban landscape designers in the design process, it mainly includes the transplantation of ancient wood plants; the simulation of rockery and flowing water; the application of traditional ancient buildings.

(2) Investigate the role of 100 citizens in a city on the current urban landscape art design in urban landscape planning;

By investigating the role of 100 citizens in a city in the current urban landscape art design in urban landscape planning, mainly from the current urban landscape design characteristics, the impact of garden

art design on the city's appearance and the three aspects of the city's ecological greening Questionnaire.

(3) Investigating 4 cities in a province, two cities that have been designed using garden design ideas are named A and B respectively, and cities that have not applied garden design thinking are named C and D. Each of the 100 citizens is comfortable with the lives of urban citizens Degree, urban ecological green coverage rate and attraction of foreign tourists questionnaire survey;

(4) Survey and statistics on the frequency of 100 large citizens in four cities visiting large parks;

Large parks are typical representatives of modern garden art. Through a survey and comparison of the frequency of 100 citizens in four cities visiting large parks, the impact of garden art design on the cultural life of citizens was analyzed.

## 4. Discussion

### 4.1. Analysis of the Status Quo of Landscape Art Design in Urban Landscape Planning

(1) With the rapid development of Internet information technology, the urban landscape design concept also needs to advance with the times. By investigating the bias of 100 landscape art designers and 100 urban landscape designers in the design process, the data is shown in Table 1 and Figure 2. The experiment found that 80% of designers tend to transplant ancient wood plants in the process of garden design, 75% of designers pay more attention to the simulation of rockery and water in the process of garden design, and 64% of designers prefer Application of traditional ancient architecture. Most urban landscape designers rarely use garden design concepts. The experimental results show that most garden designers did not better combine classical art, modern art and ecological environment in the process of garden art design, while urban landscape designers have less application of garden design, which fully proves garden art the design, is not well integrated into the modern urban landscape planning

Table 1: Investigation on the bias of 100 garden art designers in the process of garden design

Bias	Garden art designer		Urban landscape architect	
	Number of people	Percentage (%)	Number of people	Percentage (%)
Ancient wood plant	80	80	20	20
Rockery	75	75	12	12
Traditional ancient architecture	64	64	14	14

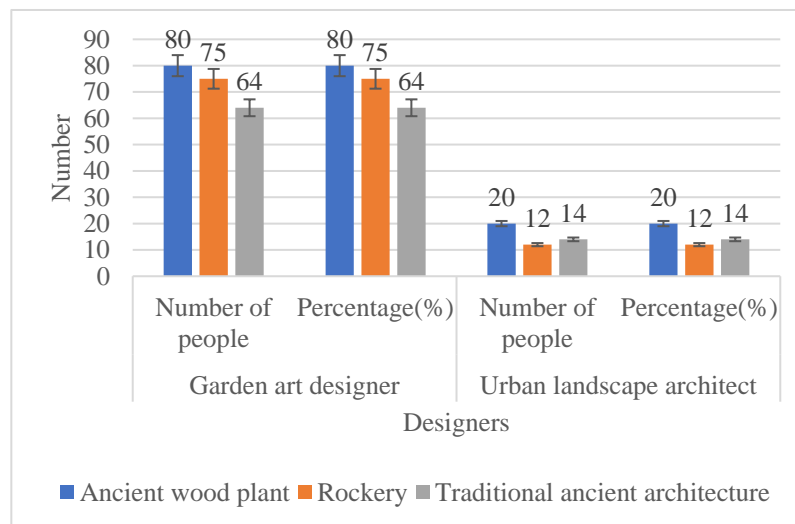


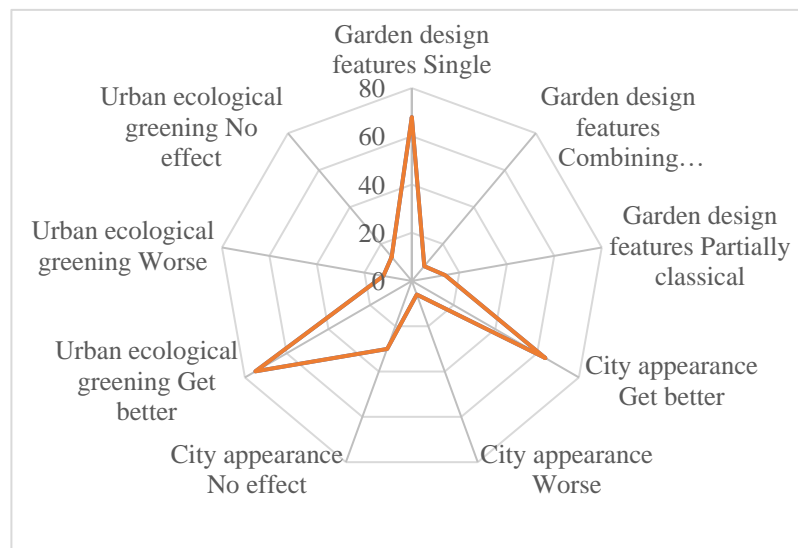
Figure 2: Investigation on the bias of 100 garden art designers in the process of garden design

(2) In the process of building a modern city, garden art design is an important content, which can not only improve the city's comprehensive appreciation, but also adjust the ecological environment in local areas. By investigating the role of 100 citizens in a city in the current urban landscape art design in urban landscape planning, mainly from the current urban landscape design characteristics, the impact of garden art design on the city's appearance and the three aspects of the city's ecological greening A questionnaire survey was conducted, and the statistical data is shown in Table 2 and Figure 3. The results show that

68% of the citizens think that the garden design of modern cities is relatively simple; 64% of the people think that garden art design can improve the city's appearance and city appearance, and 75% of the citizens find that garden art design can improve the city better Ecological green area to improve urban living environment.

*Table 2: Investigate the role of 100 citizens in a city on the current urban landscape art design in urban landscape planning*

Items		Number of people	Percentage (%)
Garden design features	Single	68	68
	Combining modern elements	8	8
	Partially classical	14	14
City appearance	Get better	64	64
	Worse	6	6
	No effect	30	30
Urban ecological greening	Get better	75	75
	Worse	12	12
	No effect	13	13



*Figure 3: Investigate the role of 100 citizens in a city on the current urban landscape art design in urban landscape planning*

#### **4.2. The Role of Garden art Design in Urban Landscape Planning**

*Table 3: A comparative analysis of the living comfort, urban ecological green coverage and attraction of foreign tourists in 4 cities in a province*

Items		A	B	C	D
Citizen life comfort	Get better	68	78	36	42
	Worse	8	5	12	10
	General	24	17	52	48
Urban ecological green coverage	Get better	66	74	45	51
	Worse	5	6	12	10
	No effect	29	20	43	39
Attraction of foreign tourists	Get better	85	75	60	67
	Worse	3	10	5	8
	No effect	12	15	35	25

(1) By investigating 4 cities in a province, two cities that have been designed using garden design ideas are named A and B respectively, and cities that have not applied garden design thinking are named C and D. Questionnaire surveys on the three aspects of comfort, urban ecological green coverage and

attraction of foreign tourists are shown in Table 3 and Figure 4. The results show that in the cities A and B that have been designed using garden design ideas, most of the citizens believe that garden design has a good impact on the urban citizens' living comfort, urban ecological green coverage and the attraction of foreign tourists; In the cities C and D of the design idea, citizens maintain an intermediate attitude towards the comfort of their lives and the coverage rate of urban ecological greening, but they think it has a good influence on the attraction of foreign tourists.

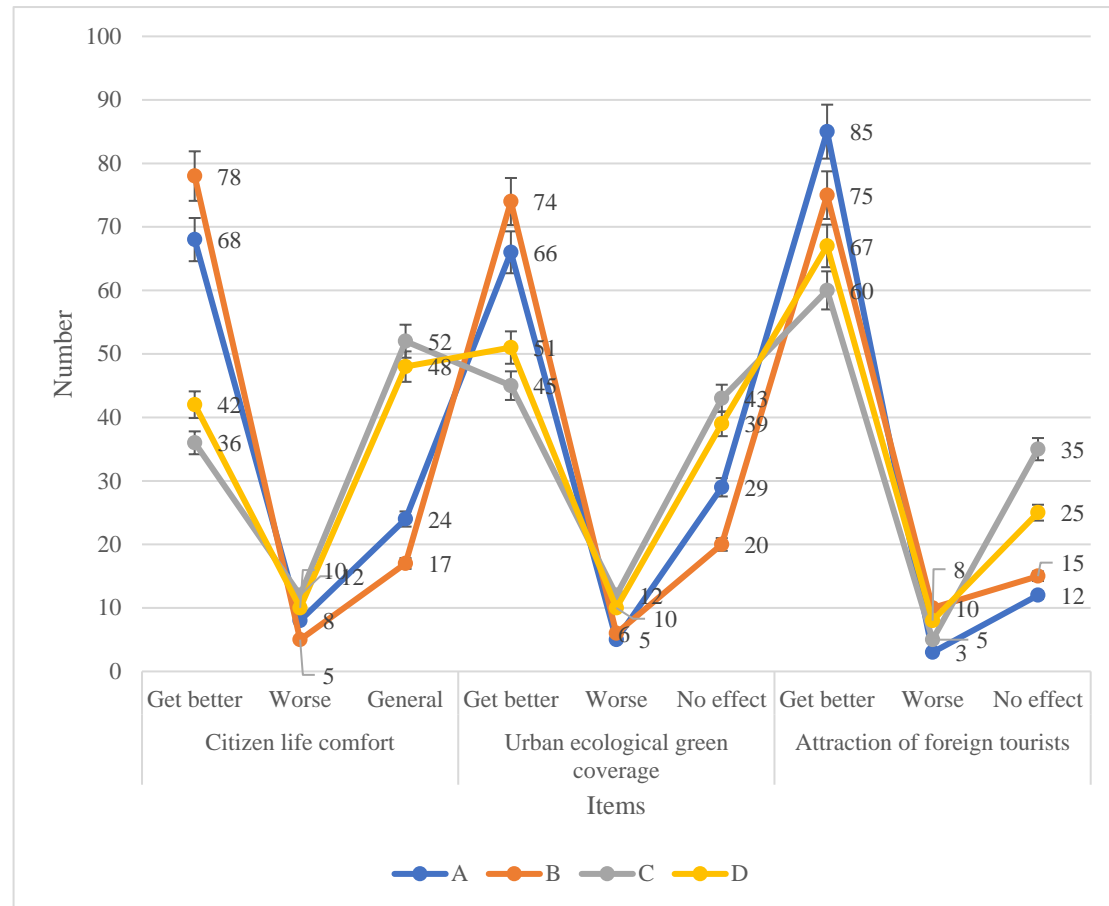


Figure 4: A comparative analysis of the living comfort, urban ecological green coverage and attraction of foreign tourists in 4 cities in a province

Table 4: Survey and statistics of the comparison of the frequency of 100 large citizens in four cities to large parks

Frequency	A	B	C	D
Often	64%	78%	56%	42%
Occasionally	28%	15%	12%	11%
Almost not	8%	7%	32%	47%

(2) Urban garden art design can effectively improve the overall landscape cultural atmosphere. A city needs not only a booming economic industry, but also the humanistic spirit of the city, which is the cultural heritage of a city. Large parks are typical representatives of modern garden art. Through the survey and statistics of the comparison of the frequency of 100 large citizens in four cities to large parks, the data are shown in Table 4 and Figure 5. The results show that in cities A and B that have been designed using garden design ideas, about 70% of citizens often go to parks, while in cities C and D that do not apply garden design ideas, nearly 40% of citizens rarely go. The park fully reflects the impact of garden art design on the cultural life of citizens.



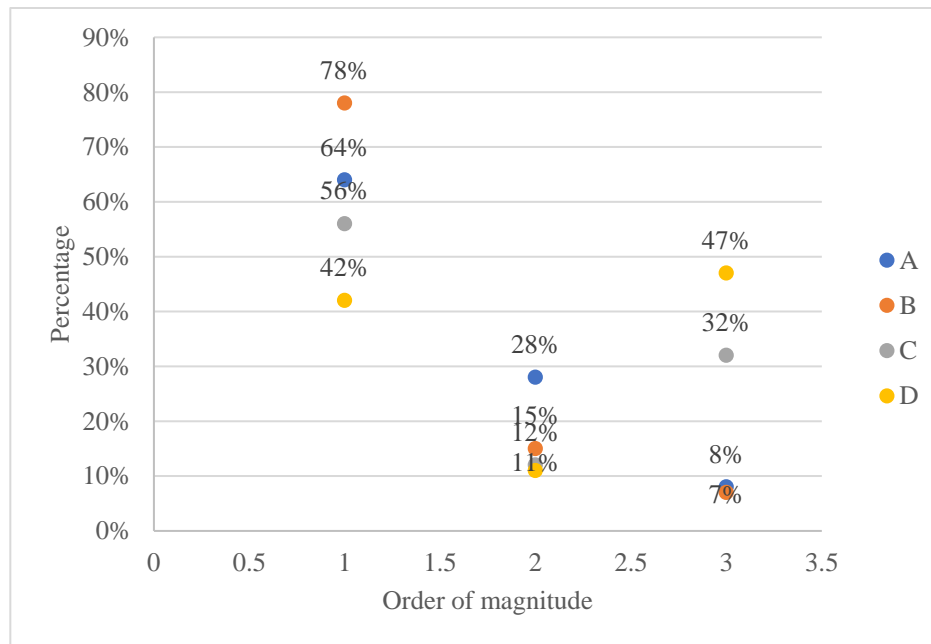


Figure 5: Survey and statistics of the comparison of the frequency of 100 large citizens in four cities to large parks

## 5. Conclusions

(1) Garden art design is an indispensable and important part of urban landscape design. It promotes each other with urban landscape design, and can develop independently. It has different characteristics and functions, and contributes to creating a better new urban landscape. This paper adopts methods of investigation and research, multiple sets of case analysis, extensive and comprehensive questionnaires, etc. to analyze and study the current status of garden art design in urban landscape planning and the role of garden art design in urban landscape planning. The impact of urban landscape design, the overall city appearance, the livability and the comfort of residents and the impact on the garden art design in the overall environment of urban landscape design. Experimental data shows that modern gardens do not better combine classical art, modern art, and ecological environment, and garden art design has not been well integrated into modern urban landscape planning. Moreover, the garden art design has a good influence on the urban landscape design, the overall city appearance, the livability and the residents' comfort level.

(2) According to the survey in this article, most garden designers have not better combined classical art, modern art and ecological environment in the process of garden art design, while urban landscape designers have less application in garden design. It fully proves that the garden art design cannot be well integrated into the modern urban landscape planning. Among them, 68% of citizens think that the garden design of modern cities is relatively simple; 64% of people think that garden art design can improve the city appearance and city appearance, and 75% of citizens find that garden art design can better improve the city's landscape design. Ecological green area to improve urban living environment. In cities A and B that have been designed using garden design ideas, the majority of citizens believe that garden design has a good impact on the comfort of urban citizens' life, urban ecological green coverage and the attraction of foreign tourists, and about 70% of the citizens go to the park frequently; in cities C and D that do not apply garden design ideas, citizens maintain an intermediate attitude to the comfort of their lives and the coverage of urban ecological greening, but they think it has a better influence on the attraction of foreign tourists, and Nearly 40% of the citizens rarely go to the park, which fully reflects the impact of garden art design on the cultural life of the citizens.

(3) All in all, modern gardens do not better combine classical art, modern art and ecological environment, and the design is simple. Garden art design cannot be well integrated into modern urban landscape planning. Moreover, the garden art design has a good influence on the urban landscape design, the overall city appearance, the livability and the residents' comfort level.

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