

# The Effect of Indoor Plant Landscape on Enhancing the Aesthetic Value of Space

Lili Liu

Department of Landscape Architecture, College of Agriculture, Jilin Agricultural Science and Technology University, Jilin, 132000, Jilin, China

**Keywords:** Indoor plant landscape; Space aesthetics; Visual aesthetic feeling; Comfort level

**Abstract:** This article mainly discusses the promotion of indoor plant landscape to the aesthetic value of space, and comprehensively analyzes the important role of plant landscape in space aesthetics. Firstly, this article introduces the basic concept and classification of indoor plant landscape, as well as the basic principles and elements of space aesthetics, which lays a theoretical foundation for subsequent research. Then, the article analyzes in detail how the plant landscape can enhance the sense of spatial layering and enrich the visual experience, as well as the principle of coordination and collocation of plant colors and spatial tones, and further reveals the promotion mechanism of plant landscape to spatial visual beauty. In addition, the paper also evaluates the effect of plant landscape on residents' mood and stress relief, and its contribution to improving indoor microclimate and purifying air through questionnaires and interviews, thus comprehensively expounding the positive impact of plant landscape on space comfort and mental health. For designers and owners, this article puts forward specific suggestions on the design and maintenance of plant landscape, and looks forward to the development trend of indoor plant landscape in enhancing the aesthetic value of space.

## 1. Introduction

As an important part of human living environment, interior space design is not only related to the realization of practical functions, but also carries the pursuit and expression of aesthetics [1]. As the core topic in the field of design, space aesthetics aims to create an indoor environment that meets the aesthetic needs of human beings and has practical value through the ingenious combination of colors, shapes, materials and other elements [2]. In this context, indoor plant landscape, as a bridge connecting nature and artificial environment, has gradually emerged in modern life and become an important means to enhance the aesthetic value of space [3].

In recent years, with the improvement of people's living standards and the enhancement of environmental awareness, the application of indoor plant landscape has become more and more extensive [4]. They can not only purify the air and adjust the humidity, but also provide residents with a healthy and comfortable living environment. They can also add vitality and vitality to the indoor space through their unique shapes, colors and vitality, and satisfy people's yearning for natural beauty [5]. Therefore, indoor plant landscape plays an important role in modern interior design, and its importance cannot be ignored.

Studying the relationship between indoor plant landscape and space aesthetic value is of great significance for improving the quality of living environment and promoting the harmonious coexistence between man and nature [6]. Through in-depth discussion on how to integrate plant landscape with indoor space and how to use plant elements to enrich the spatial level and enhance the visual effect, we can provide useful reference and guidance for interior designers, thus creating a more beautiful, comfortable and livable indoor environment.

In view of the important role of indoor plant landscape in enhancing the aesthetic value of space, this article aims to explore how indoor plant landscape specifically affects and enhances the aesthetic quality of space. The research will focus on many aspects of plant landscape, including the selection of plant types, the design of layout and the coordination between plants and other indoor

elements.

## 2. Indoor plant landscape and the theoretical basis of space aesthetics

Indoor plant landscape refers to a kind of green space with ornamental and ecological functions formed by artificially arranging and maintaining plants and combining corresponding landscape elements in the indoor environment [7]. These plants not only beautify the indoor environment, but also provide opportunities for residents to get close to nature, which helps to relieve stress and improve their mood. According to different design concepts and aesthetic needs, indoor plant landscape can present a variety of styles. As shown in Table 1:

Table 1 Examples of Indoor Plant Landscape Styles

Style Name	Design Concept	Aesthetic Demand	Example Plant Choices	Decorative Elements & Characteristics
Natural Rural Style	Pursues natural, primitive, unadorned beauty; emphasizes harmony with nature	Desires a fresh, rustic atmosphere	Green Spider Plant, Chlorophytum, Succulents, Ferns	Wooden furniture, floral curtains, handwoven items, natural light
Modern Minimalist Style	Clean and simple, focuses on smooth lines and spatial transparency; balances functionality and aesthetics	Prefers simplicity, cleanliness, and order	Cactus, Dragon Tree, Monstera, Ivy	Metal or glass containers, minimalist furniture, bright lighting, geometric patterns
Tropical Rainforest Style	Simulates a tropical rainforest environment; creates a lush, humid, vibrant ambiance	Loves tropical vibes, seeks rich, intense, exotic visuals	Areca Palm, Rubber Plant, Ferns, Air Plants	Large-leaf plants, water features, tropical fish, warm-toned lighting
Japanese Zen Style	Reflects Japanese traditional aesthetics; emphasizes simplicity, balance, and harmony; integrates nature and human	Pursues a serene, elegant, meditative atmosphere	Bamboo, Cherry Blossom (mini), Moss, Maple (potted)	Stone lanterns, wooden bridges, sand and stone, washi paper lanterns, clear water
Chinese Classical Style	Incorporates traditional Chinese garden art; focuses on creating moods and flavors; emphasizes plant symbolism	Favors traditional culture, seeks antique, elegant, and solemn ambiance	Plum Blossom, Orchid, Bamboo, Chrysanthemum (Four Gentlemen), Pine	Blue-and-white porcelain pots, stone tables and benches, screens, classical furniture, ink paintings
Nordic Forest Style	Draws inspiration from Nordic natural landscapes; creates a fresh, cozy, and warm ambiance; emphasizes use of natural materials	Prefers simplicity, naturalness, and comfort in living environments; values quality of life	Birch (mini), Ivy, Dusty Miller, Pampas Grass	Wood furniture, wool textiles, natural light, minimalist decor
Industrial Style	Combines industrial elements with plants; creates a rugged, hardy, and vital coexistence	Likes unique, avant-garde spaces with personality	Iron Fern, Cactus, Succulents, Air Plants	Exposed brick walls, metal pipes, concrete, dark-toned lighting
Mediterranean Style	Mimics the natural scenery of the Mediterranean coast; creates a bright, relaxed, and romantic ambiance	Pursues colorful, passionate, leisurely lifestyles	Olive Tree (mini), Lavender, Rosemary, Lemon Tree	Blue-and-white color scheme, ceramic decor, maritime elements, sunlight

The table lists eight different styles of indoor plant landscapes, including the design concept,

aesthetic requirements, plant selection examples and decorative elements and characteristics of each style. These different styles of plant landscapes add a rich aesthetic level to the indoor space.

Space aesthetics is a subject that studies how elements such as space form, color, light and material are combined to produce aesthetic feeling [8]. In space aesthetics, formal beauty refers to the visual aesthetic feeling presented by the arrangement and combination of space elements. Functional beauty refers to how the space layout and facilities design can meet people's needs and realize the unity of practicality and beauty. Artistic conception beauty refers to the cultural connotation and emotional atmosphere contained in space, which can arouse people's association and resonance. The main factors affecting space aesthetics include color, light, material and layout.

### 3. Correlation mechanism between indoor plant landscape and space aesthetics

There is a close correlation mechanism between indoor plant landscape and space aesthetics. Plants add vivid visual elements to indoor space through their rich colors and shapes. Different plant colors can echo or contrast with other indoor colors, thus creating a harmonious or outstanding visual effect; The shape of plants can be trimmed and shaped to create different forms of beauty, such as spherical, cylindrical, hanging, etc., which adds a three-dimensional sense and layering to the space.

With the change of seasons, the color of leaves, the opening and falling of flowers will change, which not only enriches the visual effect of space, but also brings different emotional experiences and seasonal feelings to residents. In addition, plant landscape also promotes the integration of space functionality and aesthetics. By skillfully arranging the plant landscape, we can not only divide the space area and guide the direction of people flow, but also improve the indoor air quality and adjust the temperature and humidity, thus enhancing the practicality and comfort of the space. Plant landscape can also be combined with indoor furniture, decorations and other elements to create a harmonious and unified aesthetic atmosphere, so that people can enjoy the beauty of nature and feel the warmth and comfort of indoor space.

### 4. Analysis on the aesthetic value of indoor plant landscape to enhance space

#### 4.1. Plant landscape to enhance the visual beauty of space

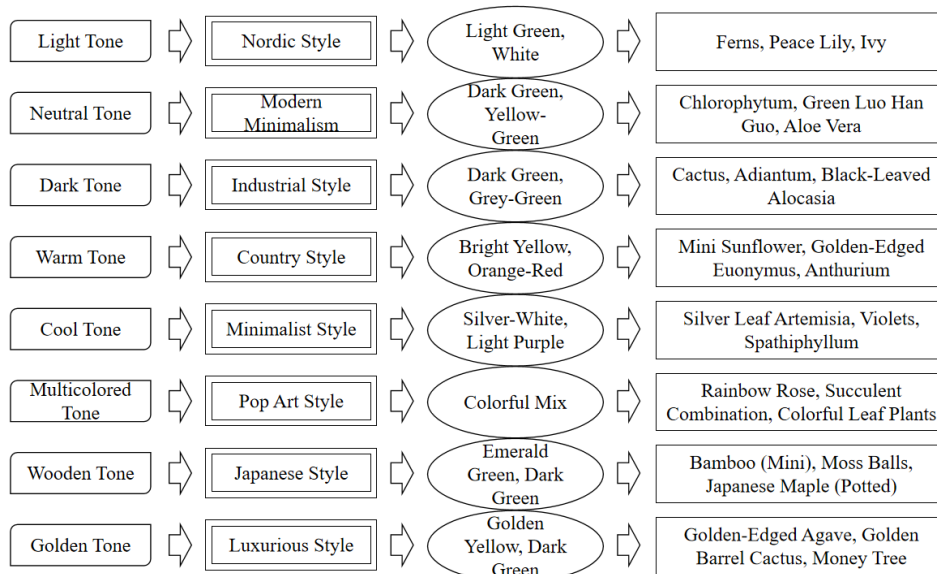


Figure 1 Coordination and collocation of plant colors and indoor space tones

Indoor plant landscape plays an important role in improving the visual beauty of space. Through its unique form and level, plant landscape can significantly enhance the sense of spatial hierarchy. At the same time, the addition of plant landscape also brings more visual focus and bright spots to indoor space, attracting people's attention, thus enriching the visual experience.

Plant landscape also shows its unique charm in the coordination of plant color and spatial tone. The colors of plants are varied, from dark green to light green, from bright flowers to mature colors of fruits, which can add different atmosphere and mood to indoor space. In the design process, we can choose the harmonious plant colors according to the overall tone and style of the space, thus creating a harmonious and unified visual effect. Figure 1 shows the coordination of plant colors and indoor space tones:

#### **4.2. The influence of plant landscape on spatial comfort and mental health**

Plant landscape can not only enhance the visual beauty of space, but also have a positive impact on residents' comfort and mental health. The existence of plant landscape can significantly alleviate the pressure and anxiety of residents and enhance their happiness and satisfaction. This is because plants can release oxygen and negative ions and improve indoor air quality, thus making people feel fresher and more comfortable. At the same time, the growth and change of ornamental plants can also bring a feeling of pleasure and relaxation, which helps to relieve nervous mood.

Plant landscape also plays an important role in improving indoor microclimate and purifying air. Plants can absorb carbon dioxide and release oxygen through photosynthesis, thus reducing indoor carbon dioxide concentration and improving air quality. Some plants can also absorb harmful substances in the air, such as formaldehyde and benzene, and further purify the indoor environment.

#### **4.3. The integration of plant landscape and cultural connotation**

As an important element of indoor space design, plant landscape can not only enhance the aesthetic value of the space, but also integrate specific cultural elements, thus enhancing the cultural connotation of the space. Different plants have different symbolic meanings and implications in different cultures. By skillfully using these plants, we can add more cultural connotations and artistic atmosphere to indoor space. The application of plant symbolic meaning in space design is also varied. According to the theme and style of the space, we can choose plants with corresponding symbolic significance for layout. Through the application of some plants, we can not only enhance the aesthetic value of space, but also convey specific cultural information and emotional implications.

### **5. Conclusions**

This study deeply discusses the positive role of indoor plant landscape in enhancing the aesthetic value of space, and draws a series of important findings. Through its unique shape, color and vitality, plant landscape can significantly enhance the visual beauty of space, enhance the layering and three-dimensional sense of space, and make the indoor environment more vivid and attractive. Plant landscape has a wide range of application strategies in different types of space. In residential space, plant landscape can create a warm and comfortable home atmosphere and improve the quality of life of residents. In the office space, plant landscape can relieve the work pressure and improve the work efficiency and satisfaction of employees. In commercial space, plant landscape can attract customers' attention and enhance brand image and commercial value.

For designers and owners, this study puts forward the following specific suggestions on the design and maintenance of plant landscape: ① When designing plant landscape, we should fully consider the overall style and color of space, and choose the plant species and materials of pots that are in harmony with it, so as to create a harmonious and unified aesthetic atmosphere. ② When designing the plant landscape, we should pay attention to the layout of plants and the creation of layering, and make the space more vivid and three-dimensional through the scattered and dense plant layout. At the same time, we should pay attention to the seasonal changes of plants and choose plants with different growth habits and ornamental values to enrich the visual effect and emotional experience of the space.

In terms of maintenance, this article suggests that the growth of plants should be checked regularly, watered, fertilized and pruned in time to ensure the healthy growth and beautiful effect of plants; We should also pay attention to controlling indoor temperature, humidity and lighting

conditions to provide suitable growth environment for plants. For some plants that are difficult to maintain, we can consider using substitutes such as simulated plants or dried flowers to reduce the difficulty and cost of maintenance.

## **Acknowledgements**

This work was supported by 2024 Horizontal Project "Indoor Landscape Construction and Research Based on Green Concept" (Horizontal 20240097)

## **References**

- [1] Zhu Hua. Influence of plant selection and configuration on indoor green landscape quality and user experience [J]. *Molecular Plant Breeding*, 2023, 21(19):6547-6552.
- [2] Niu Linlin. Analysis of the survival and growth characteristics of eco-adaptive plants in indoor green landscape [J]. *Molecular Plant Breeding*, 2023, 21(23):7899-7904.
- [3] Zhang Xinguo, Zhang Qixiang. The influence of landscape plants on human health [J]. *Forestry Science*, 2023, 59(4):100-116.
- [4] Luo Jun. Strategy and practice of biodiversity conservation in indoor green landscape design [J]. *Molecular Plant Breeding*, 2023, 21(20):6950-6955.
- [5] Yu Nan. Landscape design strategy based on visual communication [J]. *Environmental Engineering*, 2023, 41(2):330.
- [6] Yang Chen. Study on strategies of biodiversity conservation and enhancement in indoor green landscape design [J]. *Molecular Plant Breeding*, 2023, 21(20):6945-6949.
- [7] Li Mingyang, Wang Jianying. Application of multi-user interactive genetic algorithm in visual design of indoor layout [J]. *Modern Electronic Technology*, 2022, 45(24):166-170.
- [8] Tang Xihui. Design of Interior Landscape Design System Based on 3D Modeling [J]. *Modern Electronic Technology*, 2020, 43(04):173-175+179.