Microscopic Material Forms

--The Abstractive Use of Comprehensive Material in Art Creation

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Keywords: Microscopic Substance; Artistic Creation of Comprehensive Materials; Emotional Expression; Abstraction

Abstract: Our material from the micro perspective is both familiar and strange. With the rapid development of modern society, human beings have gained a deeper understanding of things around them and the ecological environment, or everything close to human beings. Rapid development also promotes people's choice to be close to nature and primitive. Art comes from life. The selection and application of materials is not the ultimate goal of the artistic creation of comprehensive materials, but a way and means for the author to express his emotions. The morphological language of micro materials brings new expansion to the artistic creation of comprehensive materials, brings new ways for the works to better convey the author's emotions, and promotes the art of micro science better.

1. Introduction

"Micro" has two meanings in people's understanding, one is the spiritual meaning, the other is the material meaning. The mental "micro" is another observation method relative to the "macro", or a methodology that looks at the whole from the individual. At the physical level, "micro" means that we use scientific tools such as microscopes to observe objects that are invisible to the naked eye. The micro mentioned in this paper belongs to the micro of the physical plane.

In recent years, with the rapid development of science, we have a variety of ways to explore the "other world" -- the world of micro matter (hereinafter referred to as the micro world). Through scientific instruments such as microscopes, we discover beauty that shocks our senses. The material forms at the micro level present a variety of shapes and colors, which are totally different from what we observe with the naked eye. And the microscopic material form, the language that it expresses is abstract, the beauty that it presents is unique, its form, structure, texture are so much more so. The German philosopher Leibniz said in his "law of dissonance" that there are no two leaves in the world that are identical. There are no two things that are exactly the same to each other.

Influenced by the social environment, our choices tend to be primitive and natural. This symbolizes people's heart is yearning for the most pure and essential things. In the micro world the micro material, its form language, is the most essential inner. In the micro world, we are closer to nature and life, bringing us new experience and more possibilities. The various forms of matter in the micro-environment that we discover with the help of technology are the progress of science. If we want to combine the abstract application and combination of the morphology and language of these microscopic substances with artistic creation, then we need to think about the materials we need to choose and the means we need to adopt, as well as the method and time cycle of observation in the microscopic observation.

It is not difficult to find from life that more and more people are gradually paying attention to the material form at the micro level. First of all, the microscopic physical forms we first came into contact with were some cellular images in the biological sciences, which sounded far away from our art subjects. But now, cross-disciplinary cooperation is no longer unusual. We began to combine science with art to create new sparks. In the big bang of colors in the exotic visual feast culture dish, Clarice Riess introduces a series of petri dish paintings inspired by cells in chemical reactions (figure 1). This brings infinite possibilities to the expression of art, and also presents a new expression of painting, giving viewers a new visual experience.
2. The art of micro science

Science and art, two seemingly distant subjects. However, with the rapid development of today's world, we are increasingly able to find that although science and art are different, they are also related from the perspective of aesthetics. The collision of science and art has the effect of making both independent disciplines more possible. In recent years, the expression of art has developed rapidly in many aspects. From the traditional painting to the use of new media and other art installations to express works, this process of change also shows that the development of science makes the imagination and creativity of art have wings. Through the expression of art, we can understand science and technology more closely, and the constant update of science and technology also makes art add many new forms of expression.

The world of micro science allows us to relearn about nature, to learn more about nature, to learn about the beauty of the natural world that we cannot see with the naked eye. The micro material form has unique texture, feature, color and structure. When the micro material form is combined with artistic creation, the integration of micro science and art is further advanced. This brings more new ways and forms to artistic creation. The combination of micro science and art creation will also turn the micro material form into art and bring it into the field of art to enrich the creation materials and means of contemporary art. It also opens up new horizons and new processes in art. In the process of creation, this will also trigger artists to think about the deeper level of life and the essence of life, and promote the progress of artistic creation in the collision of thinking.

3. Emotional expression of artistic creation with comprehensive materials

A work is originally created for the purpose that the author wants to express his inner feelings through the carrier of painting works, or to "sound out" his inner feelings through another way. Then the expression of emotion is particularly important for the work. The reason why we choose to use comprehensive materials as an art form is that the diversity of materials can be expressed more vividly. A variety of materials can be selected organically combined with the theme of creation, so that the work perfectly interprets the original purpose of the author's creation. "It's hard for me to imagine a creative activity that doesn't depend on the inner movement of people and the reflection of time, geography and culture," said Tapias. “The value of painting lies entirely in its ideological significance, and lies in its judgment of life and society. The form in which I paint depends on the
appropriateness of any material for the expression of thought, which is the vehicle of thought.” The appropriate use and choice of materials are the decisive factors in expressing emotions.

In the comprehensive material art creation, the texture of the material itself and its unique inner meaning will bring viewers different experience in different creation choices. Some material characteristics of the material itself will make the author better express emotions in the work, and let the original aesthetic feeling of the material itself to express emotions of the work.

When some elements of the micro material form are combined as materials in artistic creation, there will be infinite space and possibility for the theme of creation and expression of works' conception. As the most primitive and essential form, the micro material morphological elements (figure 2) can also be used as a kind of material in the artistic creation. It can also be expressed through images, new media devices and other means (figure 3), showing the manifestation of microscopic material elements.

![Fig.2 Morphology of pollen under the microscope](image1)

![Fig.3 Large art installations of the burning man festival](image2)

In the artistic creation of comprehensive materials, anything that can bring a sense of form or rich content to the picture (or any carrier) can be used as a material. We can put the microscopic physical form as one of the elements, subject to application to the synthesis material art, the microcosm of some material form once the abstraction, separation and distortion can be used to achieve the author want to effect, finally to form a new definition of the painting, the creation of new art, graphics, symbols. Of course, the micro material form is also classified. The feeling expressed by the visually cool and warm tone element form is also different, which can feel the vitality of life or the weakness of the opposite vicissitudes. In the application, we can use the accumulation of materials to make the works have a certain experience in the sense of touch. The smooth feel and the rough feel are also different. It inspires creativity and imagination. The combination and application of these forms and language and abstract artistic creation can make the works more deeply understand the emotions expressed by them, and also make the pictures more vivid and more imaginative. After all, the material form at the micro level needs to be observed through special ways and scientific means, which is still relatively unfamiliar to most people. Therefore, the viewers are more endowed with thinking and imagination for the pictures presented.

4. Conclusions

The physical form of the microcosm in the field of science may represent only scientific research. However, when science and art merge into each other, we apply the material form language of
micro world to artistic creation. There will be more possibilities for the way of creation and expression of art, and there will be new definitions for the form of works. The use of materials has a direct impact on the work. As the material choice of artistic creation, the micro material form language will bring artists different experience and stimulate creativity in creation. The micro world is full of unknown, full of imagination, and gives more emotions to the works to express the artist's emotions. As a result, the art of micro science is promoted, and science and art are further integrated to promote mutual development.

Acknowledgement

This research is based on the Study of Micro-Science Arts Form (Serial number:C2170010).

References


