

Revisit the Application of Mixed-Components Artistic Design in the Creation of Ceramic Tea Set

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In the field of ceramic tea set design, researchers have been seeking innovations to improve the artistry and practicality of their products. In recent years, the concept of hybrid components has been introduced into the design of ceramic tea sets, a method that creates unique tea set pieces by fusing components of different materials, shapes, and textures. The purpose of this study is to investigate the application of hybrid components in the creation of ceramic tea set art design. By fusing components of different materials, shapes, and textures, this study explores the fusion of traditional ceramic craftsmanship with modern design concepts, and how to create tea sets that are both artistic and practical based on traditional tea sets through the introduction of modern materials and craftsmanship. It explores the creative inspirations and aesthetic pursuits of artists and designers in the design of mixed-component tea sets and analyses the artistic expressions of different design styles. This paper analyses in depth the application direction and creation points of mixed components in the creation of ceramic tea set art design through qualitative research methods.

Keywords: *ceramic tea set, comprehensive materials, design elements, aesthetic value.*



1. INTRODUCTION

In the history of the development of ceramic tea sets, you can find the evolution of tea sets and feel the philosophical mood, aesthetic interest, and cultural exchange in tea culture. With the continuous improvement of science and technology, public demand increases, prompting the use of a variety of materials in the field of ceramic tea set design, the artist changed the original single material and design method, through the combination of other materials on the teapot modeling style, practical function and other changes in innovation.

With the integration of diversified design and innovative elements, through the integration of ceramics, wood, bamboo, metal, glass, and other materials, combined with traditional and modern technology, to achieve the integration of ceramic tea set design of art and practicality.

In today's market, consumer demand for tea sets not only stays in practicality but more emphasis on its artistry and uniqueness. Traditional ceramic tea design has been unable to meet the needs of modern consumers, therefore, designers began to try to introduce a mixture of different materials into the tea design, hoping that through the fusion and collision of materials, to create a more artistic and innovative tea works.

2. THE CHOICE OF MATERIALS IN THE CREATION OF CERAMIC TEA SET ART DESIGN

With the improvement of people's aesthetic interests, the rapid development of society, and the use of science and technology, the use of ceramic tea set demand, aesthetic ability are constantly improving, new materials, new technologies, the emergence of new ideas, compared with the traditional technology, ceramic technology is now also well developed, showing a diversified and varied form of development. Traditional ceramic tea sets often emphasize the beauty of nature and simplicity. The shape and decoration of the objects are usually simple, focusing on the inspiration of nature, and emphasizing the natural, pure, and unadorned beauty. Modern ceramic tea sets pay more attention to innovation and personalization. Designers often experiment with new materials, new techniques, and unique shapes, combining new materials with modern design methods to present a variety of design styles. Artists began to try different materials combined with ceramics, the current market using more materials are wood, metal, and glass, and these materials can be roughly divided into two categories artificial materials and natural materials, these kinds of



materials and ceramic materials are combined together to present the modelling styles, expression are not the same, the expression of the idea of the mood is not the same, the artists strive to express more in line with the idea through continuous attempts! Through continuous attempts, artists endeavor to express their ideas more in line with their thoughts and to provide users with a more diversified experience of using the products.

3. THE USE OF COMPREHENSIVE MATERIALS IN THE PROCESS OF CERAMIC TEA DESIGN AND CREATION

Composite materials in ceramic tea set design and creation of the use of an innovative design trend, broadens the designer's creative space, so that the ceramic tea set can maintain the traditional artistic value, but also can be integrated into the modern concept of practicality and aesthetics. Composite materials in ceramic tea set design creation designers can ceramic and other materials such as metal, glass, wood, and so on for fusion. For example, the handle of the teapot can be made of metal, and the base of the teacup can be made of wood, so as to realize the organic combination of different materials. The combination of different materials through the layered way forms a three-dimensional structure level, which affects the tea set modeling style so that the tea set style in the space is richer and diversified. A glass layer can be added to the surface of a ceramic teapot to create a sense of transparency, or a ceramic layer can be added to the bottom of a teacup to increase stability. Putting materials of different textures, colors, and textures together, adding a rough metallic texture to a smooth ceramic surface creates a stark contrast. This contrast can make the tea set more visual impact. In addition, in the application technique of materials, different materials can be carved and engraved to form unique patterns and decorations on the tea set. This way is often carried out on the ceramic wall, through the carving to show the artistic characteristics of metal or glass, but also the ceramic and other materials are spliced to form a complex structure. For example, metal holders were incorporated into the base of teacups, or wood was used to splice the handle portion of a teapot. Using the finishing properties of different materials, ceramic tea sets are made more colorful by giving them diverse colors and patterns through glazes and pigments. Combining ceramics with other materials to form unique shapes, such as making ceramics in the shape of flowers and then combining them with metal or glass materials to form highly artistic teapots or teacups. The use of composite materials enriches the design language of ceramic tea sets, making them more creative and individual, and also broadens the creative ideas of ceramic designers, prompting ceramic tea sets to remain novel and diverse in the field of modern design.



Ceramic artists will analyze in detail the physical and chemical properties of different materials such as ceramics, metal, and glass. This includes properties such as the material's hardness, abrasion resistance, heat resistance, thermal conductivity, and transparency. Understanding these properties will help determine the specific application of the material in the design of the tea set. The visual and tactile harmony of different materials will be examined. The texture, color, gloss, and other characteristics of different materials need to be harmonized with each other to create a sense of unity and artistry. Processability of materials: The processability of materials directly affects the actual production of the design. Different materials have different processing difficulties, and the research will consider how to make the best use of the properties of these materials to ensure that the design can actually be produced. Material fusion techniques: Hybrid components require specific fusion techniques, such as welding, bonding, sintering, and so on. The researcher will need to understand the advantages and disadvantages of different material fusion techniques and their application in the design of tea sets. Sustainability of materials should also be considered in modern design and sustainability is an important consideration. The researcher will explore the source, renewability, and recyclability of the materials chosen to ensure that the design is environmentally sustainable. Some materials have special significance in a particular cultural context, and the researcher may explore the traditional use of these materials throughout history and how these cultural elements can be incorporated into modern tea set designs. By delving into these aspects, designers can better select and blend different materials to create ceramic tea set designs with unique artistry and practicality.

4. FUNCTIONAL AND MODELING CHARACTERISTICS OF MODERN CERAMIC TEA SET

In the production and manufacturing process of modern tea sets, designers need to consider the diverse features of ceramic tea sets in function and modeling. To meet the basic needs of modern people on practicality and aesthetics, the design of the tea set needs to be based on the actual function of the tea set, innovative design, rather than simply the appearance of change.

China's daily use of ceramic tea set mainly to Jingdezhen as the manufacturing center, generally used in the traditional mode of hanging glaze art. The design of the ceramic tea set is also the focus of people need to pay attention to the design of the tea set in the current manufacturing process reflecting the integration of high technology and various schools of



thought so that the ceramic tea set function as well as form a greater progress, abandoning the traditional functionalism and put forward a more practical content, will be the human visual and sensory better linked together. In the current ceramic tea set design process, people found that if only by improving the function of the tea set, in the same technical standards and large-scale production mode, can not effectively promote the sustainable development of the product, but the need to make ceramic tea set has a more pleasing to the eye modeling, will be an effective combination of aesthetics and craftsmanship.

Modern ceramic tea set reflects minimalism, usually using clean, smooth lines, the pursuit of simplicity, and minimalist design style, through the curve of the soft and thick shape of the pot, the formation of the best proportion of the match, showing a sense of modernity. Some modern ceramic tea sets pursue abstract art, and the shapes may present artistic abstract modeling to attract people's aesthetic vision, as well as incorporating natural elements, such as floral decorations and landscape motifs, emphasizing the expression of eco-friendliness and natural beauty.

According to the individual needs of consumers and the progress of modern manufacturing technology, it is also possible to carry out personalized customization, including color, texture, shape, etc., to meet the individual needs of consumers. Different cultural elements are also often integrated into these designs, such as the fusion of traditional and modern, Chinese and Western cultures, presenting a unique cultural taste.

With the progress and development of science and technology, but also make a variety of materials combined with the application of more possibilities, the application of elements is also becoming more and more diversified, designers can be a more diversified expression of the concept of a modern ceramic tea set in the focus on practicality at the same time, more emphasis on its artistry and personalization, diversified styling and functional design makes the modern ceramic tea set in the market is very popular.

5. COMPREHENSIVE MATERIALS

5.1 Comprehensive material interpretation

The interpretation of the material is diverse, which the "Maier New Encyclopedia" on the "material" is defined as: "from the raw materials obtained from within, for the production of semi-finished products, workpieces, parts and finished products of the initial material,



such as metal, stone, leather, plastic, paper natural fibers, chemical fibers and so on. ". Design art originated in primitive society, this period of creation activities on the ground, such as wood, bamboo, cotton, wool, stone, bone and other natural materials used directly; to the period of artisanal society, the most notable feature is the use of pottery and fire as well as the development of metal material technology, these processed materials to make a qualitative leap in people's lives, and therefore produced class division, such as the court of the creation of artifacts and the folk creation of the difference; to the In the early 19th century, mechanized mass production brought new energy and power, new materials were commonly used, and a variety of synthetic materials were produced, such as light metals, plastic stools, new materials made new products in an endless stream of forms, and the texture and texture of different materials also gave different feelings of use (Yang Shifu, 2021). The concept of "integrated materials" was proposed in the 20th century in the West, which refers to the use of different materials in product design, so as to form an obvious appearance of differentiation and contrast in terms of shape, texture, light, color, and texture, and to bring people a rich sense of experience. The application of integrated materials in interdisciplinary fields such as science and technology and design and art has made certain achievements, and naturally, it has also received extensive attention from ceramic designers. (Yang Shifu, 2021) At present, the comprehensive materials used in ceramic design on the market mainly include metal materials, non-metallic materials, and organic polymer materials, and the commonly used materials are glass, cement, rattan hemp, gold, silver, copper, plastic, rubber, and so on.

5.2 The Application of Integrated Materials in Artworks

The application of comprehensive materials in artwork enriches the language and form of artistic creation, making the artwork more innovative and artistic. Artists combine different materials skilfully to create unique materials and textures. The combined use of wood, metal, paper, and fabric to form three-dimensional installation art also shows rich layers and textures; the use of metal skeleton, ceramics, resin, and other materials combined to make the picture not only two-dimensional plane space, to create a sense of dynamics and spatial sense of the three-dimensional works of art; the collage of different materials, or combined with a variety of mediums such as painting, photography, sculpture and so on, to create a fusion of a variety of art The collage of different materials, or the combination of painting, photography, sculpture and other media, creates a fusion of various art forms, and this kind of mixed-media creation often has a unique visual effect and artistic tension. The use of mixed materials can create unique light and shadow effects through the transparency



and reflective properties of different materials, and the combination of glass, plastic, and metal can make the works show a variety of changes under the light. Some artworks use mixed media to create movable parts or incorporate sensor technology, allowing the viewer to participate in the work, and creating a sense of interactivity and engagement.

Mixed media are often used in environmental art and installations. Artists can use a variety of materials and media to create large-scale installations so that the audience can feel the artist's creative intent of immersion, the application of integrated materials also makes the artwork not only ornamental but also has a certain degree of functionality, combined with artistic and practical, designed both beautiful and practical furniture or decorative items. The application of composite materials in artwork enriches the language and form of art creation, making artwork more innovative and artistic. The design of a ceramic tea set can also be through the combination of a variety of materials, to explore a richer way of expression, and constantly improve the attempt to explore the crafts, can choose and try more and more rich materials, our design language more far, the design expression can be more selective, and at the same time can enrich the user's sensory experience.

6. THE APPLICATION OF COMPREHENSIVE MATERIALS IN THE DESIGN OF CERAMIC TEA SET

6.1 The application of wood materials combined with a ceramic tea set

Currently most of the ceramic and wood combination of methods such as inlay, attachment, and a combination of other components, etc., through the wood surface treatment technology or bending process to make it and ceramic interspersed, splicing and thus become an innovative tea set (see the table below), the base of the teacups and handles are often made of wood, not only provides a good grip but also makes the teacups more comfortable and natural. The warmth of the wood contrasts with the smooth surface of the ceramic, adding tactile richness. The ceramic teapot with its wooden handle and spout, and the natural grain and color of the wood infuse the teapot with a natural vibrancy that adds to the harmony of the overall design. The rim and legs of the tea tray can be made of wood, adding stability to the tray and a natural element to the overall design. Tea trays and teaspoons are often made with wood or wooden rims, providing a non-slip finish to the tea set, while also giving it a more refined and sophisticated look. Ceramics and wood can be combined in a way that ceramic pots are paired with wooden bases to create unique combinations that retain the delicacy of ceramics and add the naturalness of wood.

Combining ceramics with the traditional art of carpentry in a specific cultural context creates a tea set design that is a blend of cultural elements that is both historically and culturally relevant, and that also has a modern aesthetic. The use of wood to make tea storage boxes or decorations, not only to facilitate the storage of tea, but also for the use of the tea set scene adds a natural atmosphere; the wooden part of the carving or ornaments, can increase the decorative ceramic tea set, but also shows the beauty of the woodcraft. The application of these design elements makes the ceramic tea set and wood combined design more artistic and practical, but also highlights the characteristics of the two materials, for the tea set to bring a unique flavour.

Component	Illustrations	Author/Photo Source
Tea Cup Base		Natasha Duda https://www.puxiang.com/galleries/6cb010caefbde51f6849471cd00c8e0b
Teapot Handle		Natasha Duda https://www.puxiang.com/galleries/6cb010caefbde51f6849471cd00c8e0b
Teaspoon		Longquan celadon tea accessories tea ceremony www.kouweiba.com/kit_pdd84836255.html
Tea Caddy/Tea Tray		Natasha Duda https://www.puxiang.com/galleries/6cb010caefbde51f6849471cd00c8e0b
Accessory Decoration		Stock ceramic ornaments www.1688.com/zhuti/-BFE2B4E6CCD5B4C9C8CBCEEFB0DABCFE.html

Figure 1: Tea set design with ceramics and wood materials combined



The combination of ceramic and wood design is often used by designers, wood and ceramic tea set design combined with more mature processing technology, ceramic tea set design works on the market is a relatively common type, it is in the process of choosing and requirements are not high, the need for designers to design and consider the overall modeling and functionality, control of ceramic modeling part of the shape of the regularity of the timber according to the modeling styles and sizes for the With the output can be.

6.2 Combined application of bamboo material and ceramic tea set

The combination of bamboo material and ceramic tea set design often reflects the harmony and unity of nature and man-made, creating a tea set with an oriental flavor. Bamboo material has easy-to-get, lightweight, low-cost features, usually use bamboo material to make teapot handles, not only lightweight but also rustic appearance; can also be made through the bamboo weaving process of teapots and teacups of the tired coat, not only to provide the comfort of holding, but also to give the tea set a unique sense of handcrafted beauty, but also the use of weaving process of tea leaks, can be effective in filtering the tea leaves; will be made of bamboo pieces of base, not only has a role of thermal insulation but also for the teacups provide a Bamboo is used to make the base, which is both heat-insulating and provides sturdy support for the cup. The bamboo material is used to make teaspoons and tea clips, which provide convenience for brewing and also add a simple and natural atmosphere to the tea set. These design methods fully reflect the combination of the natural beauty of bamboo material and the exquisite craftsmanship of ceramics, bringing unique artistic charm and practicality to the tea set.

Component	Illustrations	Author/Photo Source
Teapot Handle		www.tmall.com/mlist/de_HiIXBmpnx6JbQ09Gy_tkQg.html
Cup Base / Tea Tray		huaban.com/pins/843023682
Knitted Outerwear		Tea Set Porcelain Master Set Teapot www.zhe2.com/note/599816867426
Tea Set Tray		Bamboo Round Ceramic Tea Tray detail.1688.com/offer/533195067750.htm 1

Figure 2: Ceramic and Bamboo Tea Set Designs

6.3 The combination of metal materials and ceramic tea set application

The combination of ceramic tea set and metal materials is also one of the creative ways that designers often choose, the combination and collision of the two can produce unique artistic effects and functional design, metal materials have their own unique physical properties, metal and ceramic have very different texture and appearance, the combination of shiny metal and smooth or frosted ceramics, resulting in an obvious contrast of materials, (see the figure below) ceramic teapot spout will be using Metal materials, such as stainless steel or copper spout, metal spout can better control the flow of pouring water, increasing the durability and practicality of the teapot; in the overall texture of ceramics and metal materials on the warmth of the hard to form a strong contrast to the metal inlaid with decorative carvings, ceramic teapots or teacups on the surface of the metal carving or

inscriptions, the use of metal to make the teapot's buttons, the handle of the tea lid or the teacups Decorative accessories, in the teapot or teacup internal design metal mesh filter, so that the tea works in the overall modelling space more hierarchical, more rich in texture, increased practicality, artistic and decorative; in the ceramic teacups and teapot handle is also commonly used in metal materials, teacups, tea cups and base can be inlaid with metal materials or cladding to increase the stability of the teacups, the metal production of the tea tray can be to protect the desktop, such as stainless steel or copper materials; inlaid metal carving decoration, metal engraving or inscriptions on the surface of the teapot or teacup. Such as stainless steel or copper material; the tea cup and teapot surface commonly used inverted silver material and brass material to do some workmanship, through the surface decoration of this carving or painting, increases the decorative and gorgeous sense of tea, with artistic value and appreciation value. In addition, the metal material is also commonly used as a tea set in some of the accessories involved in the design of tea sets, such as tea funnel, tea tray, tea tray, etc., the part of the teaspoon can also be made of metal, easy to clean and wear and tear. The use of metal material characteristics, combined with ceramic tea design, with the diversity of ceramic tea, ceramic tea design provides more possibilities.

Component	Illustrations	Author/Photo Source
Teapot Body/Spout		Qing Dynasty Ceramic Tea Set from the web
Teapot Handle		Ceramic Handmade Strainer Tea Set Described Gold Lift Beam Jingdezhen Teapot www.defanli.com/show/563284806865.html
Teaspoon		Ebony and metal combination tea spatula detail.1688.com/offer/587268720648.html

Tea tin		Ceramic Tea Canister www.haopianyi.com/jiage/tccygdlq
Tea tray		www.bujie.com/detail/iid-531288585011.htm
Material Combination		http://www.suning.com/itemvideo/0071198972/12067808875.html

Figure 3: Ceramic and Metal Tea Ware Designs

6.4 Combined application of glass material and ceramic tea set

The combination of glass materials and ceramic materials, there are three methods of fusion, sintering and sol-gel method, according to the design approach is not the same as the choice of process, in the existing industrial materials, glass material with transparency and smooth corrosion-resistant features, the use of glass to make the body of the teapot, the transparent wall of the cup can show the colour and texture of the tea broth, adding a unique visual effect for the tea set; glass materials Glass material can also be bent and deformed through chemical processing techniques to shape the form, can be combined with ceramic tea sets through the design process, showing a variety of modelling patterns, such as smooth surfaces, convex and concave texture, etc., these characteristics can be cleverly combined with the ceramic tea set modeling, to create a sense of modernity and artistic sense of the design; the colour of the glass and ceramics can be echoed or contrasted with each other. Designers can choose different colors of ceramics as the base of the tea set, and then use transparent or semi-transparent glass materials to cover so that the tea set presents a multi-layered, colorful appearance; glass is relatively light, while ceramics are usually heavier. Combining the two can achieve a balance in the design of the tea set, which maintains the stability of the ceramic and reduces the overall weight, improving the comfort of use; through the combination of transparent glass layers and opaque ceramic layers, layers can be created in the appearance of the tea set, making the design look more

three-dimensional and rich. This is also a way of exploring the diversity of form styles in ceramic tea sets; the design elements of ceramic tea sets combined with glass materials can be observed in terms of form, color, shape and texture, and spatial layering, amongst other things.

Component	Illustrations	Author/Photo Source
Cup		Ceramic Separate Water Tea Set Glass www.defanli.com/show/540618992661.html
Body of a pot		Tai Huo Bird Tetsujin Home Fish Ho Glass Ceramic Tea Set Teapot + Teacups + Bamboo Tea Tray www.duitang.com/blog/?id=246366047
Material Combination		Baking Wizard Glass Teapot with Filter red Tea Drain item.jd.com/30447261181.html

Figure 4: Ceramics and glass materials combined tea set design

In the process of combining ceramics and glass, we need to measure the modeling style first, the size of the precise measurement, usually using a borosilicate heat-resistant glass blowing process, and porcelain production is completed, with a gel adhesive for bonding fixed. According to the idea of design and creation, you can also choose a different color of glass to decorate, glass material is more fresh and natural, but also more loved by users.



7. THE VALUE AND SIGNIFICANCE OF THE APPLICATION OF COMPREHENSIVE MATERIALS IN THE DESIGN OF MODERN CERAMIC TEA SETS

In the modern ceramic tea set design works intervene in the comprehensive material of this expressive language that can reflect the characteristics of the times and enhance the power of expression. Ceramic tea set designers are constantly exploring the expression of design works, and the application of integrated materials to expand the range of ceramic tea set materials, so that designers can choose more kinds of materials, can bring the contrast and integration of different materials to broaden the design of the innovative space, through the combination of a variety of materials, to create a unique pattern, texture and morphology, to provide more ways of artistic expression, and to achieve the goal of creative design. Creative design goals.

The application of different materials in ceramic tea sets can enhance their functionality. For example, metal or wooden handles can improve the heat resistance of teapots and teacups while providing a good grip. The application of glass or transparent materials can make the tea set more transparent and increase the ornamental.

Enhance the feeling of using ceramic tea sets and enrich the experience of using ceramic tea sets. Ceramic material with metal material can achieve the automatic opening and closing function of the teapot, which improves the convenience and intelligence of use. Traditional crafts and materials from different cultures can be combined with ceramics to create ceramic tea sets that incorporate multicultural elements. This cross-cultural integration not only enriches the connotation of design but also promotes cultural heritage and exchange. Overall, the application of comprehensive materials has brought more possibilities to the design of modern ceramic tea sets, making tea sets not only practical appliances, but also works of art, reflecting the designers' pursuit of aesthetics and functionality, and promoting the innovation and development of ceramic craftsmanship.

CONCLUSION

Mixed components and ceramic tea set design bring more innovative possibilities, integrated materials in the ceramic tea set design works still need to continue to explore, the combination of two different materials in the form of design or technical applications has a variety of possibilities, through the combination of different materials and elements, designers can create a unique, rich sense of art tea works, designers through the appropriate



materials to express Different ideas, the application of integrated materials can bring more diversified and innovative works, ceramic tea set design through the material not only to convey the artistic language but also through different materials to convey a variety of concepts, so as to truly achieve the artist and the viewer of the art of aesthetic interaction. Based on the application of mixed components for the ceramic tea set of artistic design brings multiple benefits, the tea set is no longer limited to the traditional design mode, is more innovative and diverse, and improves the status and influence of the tea set in the field of art and design.

ACKNOWLEDGMENT

I would like to thank my two supervisors for their help, patience, tolerance, and support. Thank you to the designers of the tea sets in the pictures and the website for the illustrations, which made it easier for me to more fully inform my research.



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