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## THE PLASTIC POTENTIAL OF CERAMICS AND METALS AS AN ENTRY POINT FOR THE DEVELOPMENT OF CONTEMPORARY JEWELLERY CRAFTS

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### **Abstract**

*The idea of the research is based on making use of the plastic and metal potentials as raw materials that have a functional and aesthetic role to produce innovative jewelry crafts in their well-known functional framework and inspired by the Islamic heritage by relying on the vocabulary of Islamic decoration as a starting point for the formation and expression of its intellectual content and expressive connotations. In this context, the research aims to produce innovative designs for metal ceramic ornaments with a contemporary vision while preserving the Islamic character by employing the vocabulary of Islamic decoration, as well as strengthening the principle of synthesis between materials and fields as an entry point for innovation in plastic art, and the research followed the descriptive, analytical and applied approach among the most important results that the Islamic identity can be preserved by making metal ceramic jewelry with aesthetic character and formal features inspired by the decorative vocabulary of Islamic art.*

### **Keywords**

*The Plastic Potential, Ceramics And Metals, Development, Contemporary, Jewellery Crafts.*

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## **Introduction**

Jewelry is an important element of the material heritage and is a manifestation of artistic, historical and social life, and that the marriage between ceramics and metal leads to the development of innovative thinking and enrichment of expression in artistic work. Research in the field of jewelry manufacturing is directed from experimentation and artistic practices in search of modern technical performance methods and innovative artistic solutions. In the field of ceramic metallic synthesis in the manufacture of jewelry and the detection of aesthetic values and the extent to which it is possible to benefit from the Islamic vocabulary to create metal ceramic ornaments by using various techniques to synthesize between porcelain ores and metal ores by taking advantage of the characteristics of the nature of those materials and the role of the material in enriching the artistic work. Technical work is a field for experimenting with different materials and adding new technical practices. With different materials and adding new technical practices to give the artwork new expressive and plastic values, so the various materials contribute to the designer's creativity and thought in giving new and innovative artistic formulations. And the material is considered one of the most important components of artistic works because of its vital role in the formulation of the artistic work. Ornaments carry

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aesthetic, functional and moral values. The artist is not limited to his study of the material only in its elementary nature, but rather searches for its harmony with other materials and the extent of his success in finding correct relationships between Raw materials with each other, identify their capabilities and the different plastic media to synthesize them, and try to benefit from them in the production of innovative artistic works.

**Research Problem:**

The research problem is determined in the answer to the following main question:

Is it possible to design and produce contemporary jewelry inspired by Islamic vocabulary by combining ceramic and metal techniques?

The main question is divided into the following sub-questions:

- How to create modern designs for metal ceramic jewelry crafts that combine originality with contemporary.
- What are the appropriate plastic techniques for combining ceramic and metal materials in creating jewelry crafts.

**Research Aims:**

- Producing innovative designs for metal ceramic jewelry with a contemporary vision.
- Inspiration from the vocabulary of Islamic decoration as an artistic source for designing metal ceramic jewelry with contemporary visions.
- Achieving new aesthetics through the combination of ceramics and metals to produce innovative jewelry.

**Research Importance:**

- Promoting the principle of synthesis between materials and fields as an entry point for innovation in plastic art

The research is considered a new trend in the field of ceramic metal forming through the development of unconventional jewelry.

Emphasizing the aesthetics of Islamic art as a rich and fertile source of artistic treatment that helps the artist and designer develop his innovative capabilities

- The research presents an attempt to support technical experimentation in the field of metal-ceramic forming materials.

**Research Hypotheses:**

- The combination of materials leads to the development of innovative thinking and the enrichment of expression in artistic work.
- Islamic motifs can be used as a source of design because it has unique symbolic connotations.

### **Research Methodology:**

Theoretical framework: The research deals with the descriptive and analytical approach in studying selections from Islamic art motifs to extract aesthetic values from them, identifying the features and characteristics of each, and studying some ceramic techniques to make use of them in the synthesis between ceramics and metal.

The practical framework: The practical framework of the research is based on a subjective experience, through which the two researchers created a set of designs for ceramic metal jewelry, so that the designs are dominated by the experimental contemporary character inspired in its design and decorative structure from the features of Islamic art.

### **Research Limits:**

- Areas of experimentation in synthesis were identified in the fields of ceramics and metals.
- Islamic decorative vocabulary from different eras (star dishes - vegetarian units - geometric units)
- Determine the design aspect without execution by implementing the virtual 3D stamp of jewelry with clarity of shape, detail and technique, and by using the capabilities of the Photoshop program.

### **Research Results:**

From the above, we can extract the results of the research as follows:

- The combination of ceramics and metal is suitable for creating jewelry designs with new and innovative visions while preserving the Islamic identity.
- You can create modern designs for metal ceramic jewelry crafts that combine originality with contemporary.
- Islamic decorations are considered one of the important sources rich in aesthetic plastic values.
- Islamic motifs can be used as a source of design because it has unique symbolic connotations.
- Inspiration from Islamic motifs helps spread national awareness of the nation's heritage and gives authenticity to the hadith.

### **Recommendations:**

- Continuing to devise Islamic motifs in contemporary design in order to emphasize the cultural identity.
- The link between the manufacture of jewelry and small industries, which helps in forming production units for ceramic metal jewelry.

### **References**

- 1- El-Demerdash Hosni Ahmed Mohamed 1990 The plastic potentials of industrial plastics 6 as an entry point for creating contemporary artistic ornaments. PhD Thesis, Helwan University,

Faculty of Art Education, Cairo

2- Al-Hawl Jamal Al-Sayed 2003 Entrance in the jewelery industry - Al-Zaeem Office Services  
- Dokki - Cairo

3- Mansour Zainab Ahmad 1996 AD. Modern artistic trends and their impact on mineral  
jewelry, unpublished PhD thesis, Department of Applied Artistic Fields, Faculty of Art  
Education, Helwan University

4- Adel Ali Abdel Aziz Shaath 2014: The Impact of the Development of Raw Technology on  
the Development of the Understanding Concept in the Modern Era, Helwan University, Egypt

5- Iyad Saqr 2003, Islamic Arts House of Jordan's Majd

6- Marwa Muhammad Mustafa AL-MASRY, THE CONCEPT OF (CRADLE TO CRADLE)  
THEORY IN THE DESIGN OF RECYCLED PRODUCTS, International Journal of Design  
and Fashion Studies, Vol. 2, No. 2, 2019, pp. 20-23.

7- <https://www.albayan.ae/sports/2005-10-09-1.983754>

8- <http://jewellery.museumwnf.org/database-item/ISL/eg/Mus01/29/ar>

9- [http://islamicart.museumwnf.org/database\\_item.php?id=object;ISL;eg;Mus01;24;ar](http://islamicart.museumwnf.org/database_item.php?id=object;ISL;eg;Mus01;24;ar)

10- [http://islamicart.museumwnf.org/database\\_item.php?id=object;ISL;sy;Mus01;16;ar](http://islamicart.museumwnf.org/database_item.php?id=object;ISL;sy;Mus01;16;ar)

11- [http://islamicart.museumwnf.org/database\\_item.php?id=object;ISL;ma;Mus01\\_B;44;ar](http://islamicart.museumwnf.org/database_item.php?id=object;ISL;ma;Mus01_B;44;ar)

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