

تصميم وإنتاج حلي خزفية بالإستفادة من التأثير اللوني والشكلي الناتج عن استخدام  
الثمار والبذور وتركيبها الكيميائي

**Design and production ceramic jewelry using the chromatic and formal  
effect of fruits, seeds and their chemical composition**

أ.د/ زهيرة توفيق ذكي

أستاذ متفرغ بمركز بحوث الصحراء

**Prof. Dr. Zahira Tawfik Zaki**

**Emeritus Professor – Desert Research Center**

مصمم. د/ ريهام عمران

مصمم خزف

**Designer Dr. Riham Omran**

**Ceramic Designer**

[riham.omran@yahoo.com](mailto:riham.omran@yahoo.com)

**Research Summary:**

Ceramic jewelry are distinguished from other types of jewelry with their attractiveness and variety of methods of production and decoration, in addition to its economic value, one way to leave a chromatic and formal effect on the surface of ceramic jewelry is to add organic matter, many fruits and seeds can be used to add this aesthetic effect, the resulting color varies on the surface of the ceramic jewelry depending on the chemical composition of seeds or fruits used because when you add them to the piece of jewelry and burn, it left empty place and formations are produced on the piece surface after jewelry burning, a chromatic effect is caused by the reduction of organic matter, this varies effect depending on the type of seeds and fruits, which leads to the benefit of design in the formation and production of jewelry in an economic way.

**Key words:**

Chemical composition of some fruits and seeds- Ceramic jewelry- Chromatic and morphological effects.