

Usage of Eggplant Branch Ashes as Greenhouse Waste for Low-fired Ceramic Glazes

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ABSTRACT

Ceramic material that has an extensive historical background and usage area requires pretty comprehensive process in context of its production. General belief is that fire rules the process for this reason mostly chance causes and improvements shape history.

Ceramic glazes are the clearest sample for this kind of coincidental developments. Woods that are used as fuel create ashes and these ashes; fly, evaporate then attach and melt on ceramic body. So first known ceramic glaze called ash-glazes were discovered during primitive firings. Later, this method which has been discovered by chance became a rational field of study and ashes of various plants and woods are used effectively as ceramic glaze component.

Dry and woody body of eggplant which is greenhouse waste and is burned by farmers for getting rid of thousands of tons mass stack is used for this research. The aims of the study that examines the usage of plant ashes for low-fired (1040⁰C) ceramic glazes are contribution to field of ceramic technology and offering an alternative usage area for greenhouse waste.

Key Words: Ceramic(s), Ceramic Technology, Ceramic Glazes, Ash-Glazes, Greenhouse Waste