## Application of UV-C Irradiation on Quality and Textural Properties of Button Mushrooms

Authors : M. Ghasemi-Varnamkhasti, S. H. Yoosefian. A. Mohammad- Razdari

**Abstract :** The effect of 1.0 kJ/m<sup>2</sup> Ultraviolet-C (UV-C) light on pH, weight loss, color, and firmness of button mushroom (<em>Agaricus bisporus</em>) tissues during 21-days storage at 4 &ordm;C was studied. UV-C irradiation enhanced pH, weight, color parameters, and firmness of mushroom during storage compared to control treatment. However, application of 1.0 kJ/m<sup>2</sup> UV-C treatment could effectively induce the increase of weight loss, firmness, and pH to 14.53%, 49.82%, and 10.39%, respectively. These results suggest that the application of UV-C irradiation could be an effective method to maintain the postharvest quality of mushrooms.

Keywords : mushroom, polyethylene film, quality, UV-c irradiation

Conference Title: ICFPT 2016: International Conference on Food Processing and Technology

Conference Location : Paris, France

Conference Dates : August 22-23, 2016