World Academy of Science, Engineering and Technology
International Journal of Nutrition and Food Engineering
Vol:10, No:08, 2016

Electronic Tongue as an Innovative Non-Destructive Tool for the Quality Monitoring of Fruits

Authors : Mahdi Ghasemi-Varnamkhasti, Ayat Mohammad-Razdari, Seyedeh-Hoda Yoosefian

Abstract : Taste is an important sensory property governing acceptance of products for administration through mouth. The advent of artificial sensorial systems as non-destructive tools able to mimic chemical senses such as those known as electronic tongue (ET) has open a variety of practical applications and new possibilities in many fields where the presence of taste is the phenomenon under control. In recent years, electronic tongue technology opened the possibility to exploit information on taste attributes of fruits providing real time information about quality and ripeness. Electronic tongue systems have received considerable attention in the field of sensor technology during the last two decade because of numerous applications in diverse fields of applied sciences. This paper deals with some facets of this technology in the quality monitoring of fruits along with more recent its applications.

Keywords : fruit, electronic tongue, non-destructive, taste machine, horticultural
Conference Title : ICFPT 2016 : International Conference on Food Processing and Technology
Conference Location : Paris, France
Conference Dates : August 22-23, 2016