Abstract

In this review paper applications of Near Infrared (NIR) spectroscopy in agro-food analysis is discussed. NIR spectrometers have a wider application use in agro-food industry and many fields. In agro-food industry application includes pesticide residue detection, chemical detection, microbiological hazard detection, physical hazards detection and food safety and traceability. In addition spectrometer are explored within various fields of agricultural products include food, fruits, vegetables, crops and dairy products, oil and beverages.

References


4. Kexin Xu; Qingming Luo; Da Xing; Alexander V. Priezzhev; Valery V. Tuchin Tianjin, “Nondestructive measurement of acidity of Chinese bayberry using Vis/NIR spectroscopy techniques”, Fourth International Conference on Photonics and Imaging in Biology and Medicine, 60472D (October 27, 2006); doi:10.1117/12.710950


12. Haiqing Yang, Yong He, "Nondestructive Variety Discrimination of Fragrant Mushrooms Based on Vis/NIR Spectral Analysis", 2008 IEEE DOI 10.1109/CISP.2008.627

Index Terms

Computer Science Information Sciences

Keywords

Spectroscopy, pesticide residue, principal component analysis, artificial neural network