

Special Issue

Integrative Approaches for Food Sensory and Flavor Analysis

Message from the Guest Editors

Sensory and flavor characteristics plays a very important role in product evaluation. The electronic tongue together with the electronic nose emerged as precise and easy to use taste and aroma sensing devices for the sensory analysis of food matrices. These sensing devices may be portable allowing a fast and in-situ assessment of positive and negative gustatory and olfactory sensations, mimicking the performance of the trained sensory panels. The development and performance of fast and effective tools have benefited greatly from recent advances in key fields, such as chemometrics, digital electronic sensor design, material science, microcircuit design, software innovations, miniaturization techniques and electronic system integration. This special edition is dedicated to the latest developments in the field of practical tools for evaluating the taste of food, including chemical sensor and biosensor application, innovative signal acquisition and data processing and industrial implementation.

Keywords

- Electronic tongue
- Sensor/biosensor electrochemical devices
- Potentiometric devices
- Voltammetric devices
- Chemometric tools
- Food analysis
- Sensory analysis

Guest Editors

Dr. Nuno Rodrigues

Prof. Dr. José Alberto Pereira

Dr. António M. Peres

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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