Special Issue

Living Biosensors for Odor Detection

Message from the Guest Editor

Some animals with excellent olfactory discrimination capabilities (i.e., dogs, mice, bees, etc.) can be conditioned to sniff and identify target volatiles. The conditioned animal can quickly recognize the unique odor of volatile organic compounds and exhibit various signal behaviors, acting as an animal nose sensor. Animal nose sensors are mostly applied in the field of drug detection dogs or mine/explosive detection. When it comes to medical applications, animal nose sensors, which utilize the animal's sense of smell to detect disease-specific odors, are a technology that has all of these non-invasive and early detection benefits. There is growing interest in detection animals in the areas of forensic science, land security, and disease diagnosis. We invite original papers that address behavioral odor detection by animals. The topics of the Special Issue "Animal Nose Sensors" include narcotics detection, explosive detection, environmental monitoring, food safety detection, and disease diagnostics using animal olfaction. For detailed information, please visit here.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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