

Special Issue on Biological Odor Sensing Systems and Their Applications

Innovative odorant-sensing technologies capable of detecting a wide variety of odorants with high sensitivity and selectivity beyond that of existing odor sensors are required for various purposes such as food and water quality control, dangerous substance and drug detection, disease diagnosis, and robot olfaction. Towards realizing such technologies, odor sensors based on the olfaction of living organisms have attracted considerable attention due to their highly sensitive, selective, and real-time odor detection abilities. Furthermore, the odor-source searching strategies of living organisms have become model systems for developing odor-source searching robots. This special issue focuses on various fields related to olfactory systems of living organisms and their application to odor biosensors, ranging from olfactory mechanisms and odor sensors based on olfactory systems and/or biomaterials of living things to odor-source searching strategies and their utilization for the development of odor-source searching robots.

Scope:

- Olfactory mechanisms of living things
- Odor sensors based on olfactory systems of living things
- Biomaterials derived from olfactory systems
- Odor-source searching robots
- Algorithms for odor-source searching behavior
- Chemical sensors, biosensors, and so on

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(Attention)

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