Biosensors and Related Areas

Editorial

The 21st century is a new century in which science and technology will develop in very different ways from the 20th century. There are three key fields: biology, IT (information technology) and nanotechnology, which have sprung from the fruitful results of the last century. Today, the fusion of various different technologies is becoming more and more important. If the last century is considered the development of each individual science and technology, then the present century can be considered the fusion of all fields to result in a limitless world.

In response to this rapidly advancing situation, a new section, Biosensors and Related Areas, has been created and it will start from this issue of Sensors and Materials. It is my great pleasure to assume the responsibility of Section Editor of this international journal. I am grateful to the Editor, Professor Sugiyama, and the Associate Editors, Professor Korvink and Professor Reed, for recommending me as the Section Editor.

This new section examines topics related to biological sensing and sensors such as biosensors, electronic tongue (taste sensor), electronic nose (odor sensor), chemical sensors, gas sensor, environmental monitoring, DNA chips, µ TAS, neural network, nonlinear information processing, biochemical analysis, biomedical sensors, bioelectronics, micro-sampling techniques, artificial intelligence, artificial senses, micro-machines, digital communication of senses of taste and smell. As is apparent from these terms, the new section includes a wide range of biosensor applications.

In fact, Sensors and Materials has already published a number of special issues related to the above theme, e.g., in Nos. 1–3 of Vol. 4, Nos. 3 and 4 of Vol. 7, Nos. 7 and 8 of Vol. 11 and Nos. 2 and 3 of Vol. 13. These special issues have been accepted enthusiastically and have had a significant impact on many academic and industrial fields. Sensors and Materials was the first to succeed in publishing research on novel original features of electronic tongues and noses among many international journals.

I am greatly honored to have been given this opportunity to contribute to the journal. I believe that this new section will present a new stage in the development of sensor technologies aiming at knowledge for building a peaceful world in the 21st century.

Section Editor, Biosensors and Related Areas
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