

Sensors and Materials

Special Issue on Biosensing Materials and Engineering for Electrobiolgy

Call for Papers

Biosensing technologies are required for biological analyses and clinical diagnosis in the world. Basically, biosensing devices are composed of three functional elements such as detection device, signal translational interface and targeted biological phenomenon. In fact, electrical devices are developed as one of the detection devices for bioanalytical tools, because targeted biological signals, which often derived from ionic behaviors of ions and biomolecules, can be directly detected as electrical signals with semiconductor devices such as a field-effect transistor (FET). On the other hand, it is more necessary for detecting selectively and specifically bio-samples to design and develop a well-defined bio/device interface (as the signal translational interface). Such a novel electrical biosensing device is expected to discover a new biological phenomenon, “*Electrobiolgy*”, in the future. This special issue will focus on the state-of-the-art biosensing technologies toward “*Electrobiolgy*” with electrical devices and chemical/bio-interface materials.

Scope:

- Electrochemical devices and materials
- Bioanalyses
- Chemical/Bio-interfaces
- Health care and Clinical diagnosis.

Submission due date: ~~November 30, 2017~~ extended to **February 28, 2018**

Publication date (planned): August 2018

Journal website: <http://myukk.org>

Guest Editor: Toshiya Sakata (The University of Tokyo)

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2. Email to MYU K.K. (myukk@myu-inc.jp)

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If you have any questions, please feel free to contact the editorial staff at the address below.

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