

**Symposium on
“Organic Nano-Materials with Flexible Structure and NICE “KARAKURI” Devices”**

**Co-organized by
Group of Organic NICE Devices, The Society of Applied Physics**

The operation of most optoelectronic device is fundamentally ruled by the interfaces of semiconductor and metal contacts. The device performances are strongly dependent on the interfacial properties. Then it is of great importance to pursue so-called “KARAKURI (in Japanese)” for the fruition of highly functional devices, where intentionally introduced tricky-but-intelligent nano-interfacial phenomena play a dominant role beyond the specific function of molecules themselves. Electronic and optically functional devices using organic nano-materials with flexible structure have been developing to the stage of practical use. To improve the performance and the function of such devices, the profound understanding of electronic phenomena at the interface is critically important. Accordingly, it is necessary to understand what the “KARAKURI” of interface systems is and use intentionally the “KARAKURI” for the better performance. Our goal is to realize not only thin film electronic devices, but also mono-molecular film electronic devices in its turn molecular electronic devices. The object of this symposium shall be to discuss basics and applications in terms of NICE KARAKURI devices. Organic nano-materials with flexible structure, techniques for the evaluation of “KARAKURI”, Tricky but intelligent ideas for the NICE KARAKURI Devices, etc. will be discussed.

Topics

- * Organic thin films with flexible structure
Organic thin films with nano-structure/ Functional organic materials/ Mono-molecular films
- * Electronic and optically functional devices with nano-interface
Organic and optically functional devices/ Electronic functional devices/ Organic thin film sensors/ Bio-devices/ Organic and molecular memory/ Mono-molecular devices
- * Evaluation techniques of interfacial function
Electronic and optically evaluation techniques of nano-interface/ Nanometric organic electrochemistry/ Evaluation of flexible structure of nano-interface

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