



東京大学微細構造解析プラットフォーム 公開講演会

“Three-dimensional Nanowire Arrays for Supercapacitors and Piezo-photo-magnetotronics Fabrication”

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Nanostructures represent the smallest dimension for efficient transport of charges and excitations as well as band gap engineering, and thus are ideal nanocomponents for energy device and active sensor fabrication. This talk will be first focused on the synthesis of cobalt and iron phosphide nanorod arrays as high-performance supercapacitor negative electrodes. Next, the synthesis of II-VI semiconductive core/shell nanowire arrays with type II band gap alignment will be presented for piezo-phototronics and piezo-photo-magnetotronics applications. The detailed mechanism will be discussed in terms of structure characterization, transport measurements, and device performances.

Jun 1 (Fri) 2018 15:30~17:00

**Main meeting room at Institute of Engineering Innovation, UT
(工学部総合研究機構 9号館1階 大会議室)**

Organizer: Prof. Yuichi Ikuhara, Phone: 03-5841-7688