



スキルアップ補助金利用内容について 多元物質科学研究所・朱慧娥

・目的

By using the skill-up funding, I joined the international conference “**2016 KJF International Conference on Organic Materials for Electronics and Photonics (KJF-ICOMEF 2016)**” organized by Kyushu University. The main purposes were information collection and research presentation.

・旅程

日程: 平成28年9月4日
～平成28年9月7日
場所: 福岡
往路: 仙台駅→(鉄道)→
仙台空港→(飛行機)→福
岡空港
復路: 福岡空港→(飛行機)
→仙台空港→(鉄道)→仙
台

・講演等内容について

Title: **Ferroelectric Polymer Nanosheets for Resistive Switching Non-Volatile Memories**

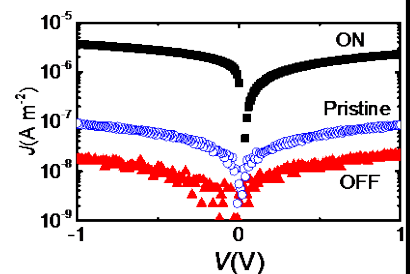
Authors: **Huie Zhu, Shunsuke Yamamoto, Jun Matsui, Tokuji Miyashita, Masaya Mitsuishi**

・本制度を利用することによって得られた効果

Thanks to this funding, I presented my research results and also talked with the famous scientists in my research fields. The participation brought me a lot of inspiration for the improvement of my future research. I appreciate very much for the supporting of the grant.

・研究内容紹介

In this study, I fabricated blend nanosheets of PVDF nanofilms and conjugated polymers using Langmuir-Blodgett (LB) technique, showing controllable thickness at the nanometer scale and smooth surface. The PVDF-P3CPenT blend nanosheets were confirmed with complete ferroelectric crystals and well dispersive phase separation. From current (J)-voltage (V) characteristics (**Figure 1**), resistive switching was successfully detected in the PVDF-P3CPenT LB blend nanosheets.



Resistive switching of PVDF-P3CPenT blend nanosheets