## New progress in Organic FET

Co-funded by NSFC, MOST and CAS, researchers from the Key laboratory of Organic Solids, Institute of Chemistry, CAS, made new progress in organic field-effect transistors (FET). The results of the study were published recently in the journal of Advanced Materials (2008, 20, 1286—1290).

In recent years, due to the potential application of active matrix display and radio frequency tag, organic FET with large area, flexibility and low-cost attracted more concerns from R&D and industrial sectors, and made considerable developments. At present, the performance of organic FET almost meets the practical requirements. Compared to inorganic FET, organic ones are unique in low-cost and flexibility. The prospect of organic FET's application and commercialization is largely subject to its low cost.

In previous research reports, the lab's researchers developed a method of copper and silver modification to replace the source and drain electrodes of organic field effect through which high-performance devices were obtained (J. Am. Chem. Soc. 2006, 128, 16, 418). Followed by building nano-structure electrodes, the relationship of the device performance with the electrode forms was studied (see the cover paper of Phys. Chem. Chem. Phys. 2008, 10, 2302). Recently, the group made new progress in organic FET with low-cost and high-performance. Organic field-effect transistors with the structure of upper electrode were prepared by the use of low work-function copper as the source and drain electrodes. The results have been filed for Chinese patent and published in Journal of Advanced Materials.

## 67 NSFC-RFBR Cooperative Projects Approved for 2008

The NSFC-RFBR Cooperative Project is jointly managed and funded by the National Natural Science Foundation of China (NSFC) and the Russian Foundation for Basic Research (RFBR). In 2008, a total of 105 applications were received, of which 67 were approved for funding based on the evaluations by NSFC and RFBR.

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