



第53回 未来化学創造センター セミナー

Global COE Seminar No. 109 “Science for Future Molecular Systems”
九州大学グローバルCOEプログラム「未来分子システム科学」



“OFET processing and the application of OFET arrays in low cost vapour sensing”

Professor Michael L. Turner

Director of Organic Materials Innovation Centre,
School of Chemistry, University of Manchester

The lecture will present melt processing as an alternative approach to evaporation or solution based processing of organic semiconductors in OFETs. It will then discuss the selective detection of airborne analytes in real time using arrays of organic field-effect transistors (OFETs). The use of multiple parameters – resistance, off current and mobility – collected from multiple transistors coated with different semiconducting polymers gives dramatic improvements in the sensitivity, specificity and speed of sensing. Computer-controlled data collection allows the identification of analytes in real-time, with a time-lag between exposure and detection of the order of 15 seconds or less. The incorporation of Genetic Programming (GP) into the analysis of the collected data is demonstrated to be an effective method for the identification of patterns in the multiparametric data obtained.

Admission Free

皆様のご参加をお待ちしております。

2010/1/27(水) 11時00分より
ウエスト4号館 315号室

27th Jan. 2010 11:00 a.m ~
W4-315 (Ito Campus)

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