

# Low-Temperature Organic and oxide Transistors For Printable electronics

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## Abstract

*Over recent years there has been tremendous progress in developing low-temperature processible organic and oxide semiconductors that can be processed by solution-based printing techniques and provide high charge carrier mobilities for both n-type and p-type field-effect transistor operation, good operational stability and other functionalities such as efficient electroluminescence, sensing or memory functions. In this talk I will discuss the basic device and charge transport physics of organic and oxide transistors, review manufacturing*

*approaches and assess their performance in light of a range of applications in displays and integrated systems.*

## Short biography

*Prof. Henning Sirringhaus, FRS is the Hitachi Professor of Electron Device Physics at the Cavendish Laboratory and works on the charge transport, photo- and device physics of polymer and molecular semiconductors. He is co-founder of the spin-off companies, Plastic Logic/FlexEnable and Eight-19 Ltd, commercializing organic transistor and organic solar cell technology, respectively.*