



## 5.9

## Writing an abstract

## Physics briefing sheet

During this activity, you will write an abstract for the article you wrote in Activity 5.7 Writing a scientific review article. This worksheet gives you the opportunity to read an abstract and identify its key features.

Note that the abstract below has been written for a review article, rather than a scientific research paper. A review is a scientific paper that draws together the findings of a range of researchers who have published their work in various different publications. The article you wrote in Activity 5.7 is effectively a review, so your abstract may bear some resemblance to that shown below.

**Abstract:** The environment of surface electrons at ‘solid-to-liquid’ interfaces is somewhat extreme, subjected to intense local electric fields or harsh chemical pressures that high-density ionic charge or polarization of mobile molecules create. In this proceedings, we argue functions of electronic carriers generated at the surface of organic semiconductor crystals in response to the local electric fields in the very vicinity of the interface to ionic liquid. The ionic liquids (ILs), or room temperature molten salts, are gaining considerable interest in the recent decade at the prospect of nonvolatile ‘green solvents’, with the development of chemically stable and nontoxic compounds. Moreover, such materials are also applied to electrolytes for lithium ion batteries and electric double-layer (EDL) capacitors. Our present solid-to-liquid interfaces of rubrene single crystals and ionic liquids work as fast-switching organic field-effect transistors (OFETs) with the highest transconductance, i.e. the most efficient response of the output current to the input voltage, among the OFETs ever built.

From: J Takeya 2008 *J. Phys.: Conf. Ser.* 132 012028 Copyright IOP Publishing Ltd  
<http://www.iop.org/EJ/abstract/1742-6596/132/1/012028>

After reading the above text, you should write down your ideas about the key features of the abstract. You may choose to do this as bullet points, or as a flow diagram. Use the space below.