Functional Nanomaterials Essay

You should submit an essay of around 3000 words (excluding references and figure captions) on the following topic:

*From your general reading and lectures, describe a recent advance in Nanoscience (within the last 5 years), which you consider to be important. Give reasons as to why this is a critical development, map out the potential applications of this advance, and suggest how this development may change Nanoscience in particular and science in general over a longer time scale.*

Your essay should be prepared in the format and writing style of a manuscript for submission to the ACS journal [*Chemical Reviews,*](http://pubs.acs.org/journal/chreay) although will necessarily be much shorter. See the requirements for format of written assignments on the [assignment submission page](https://portal.bcfn.bris.ac.uk/portal/course/view.php?id=161) for further details and document templates. You should use well-structured prose, presenting a reasoned answer to the question. This should be supported by relevant literature references, appropriately cited using the ACS style. If figures are used they should be appropriately captioned. Your essay should be written at a level that would be understandable to a final-year undergraduate in a physical sciences or engineering discipline who does not have specific detailed knowledge of the topic you are covering.

For guidance, the marking criteria that will be used to assess your essay and some examples of essays that have previously been marked highly are given in the document below. Note that these are not examples of "perfect" essays - they are just to provide a guide to content and writing style that have previously received high marks. Note also that these do not necessarily follow our current style guidelines and **you should not base the formatting of your essay on them - use the templates given in the information on**[**format for written assignments**](https://portal.bcfn.bris.ac.uk/portal/course/view.php?id=161#section-2)**.**