

## **Dr Cinzia Casiraghi, University of Manchester**

Dr Cinzia Casiraghi received her BSc and MSc in Nuclear Engineering from Politecnico di Milano (Italy) and her PhD in Electrical Engineering from the University of Cambridge (UK) in 2006. In 2005 she was awarded with an Ernest Oppenheimer Early Career Research Fellowship, followed by the Alexander von Humboldt Research Fellowship in 2007 and the prestigious Sofja Kovalevskaja Award, won in 2008. This Prize allowed her to become a Junior Group Leader at the Physics Department of the Free University Berlin (Germany). Since 2010 she is also a permanent Staff member of the School of Chemistry, at the University of Manchester (UK), where she has been appointed as lecturer in graphene's chemistry.

Dr Casiraghi is an established and internationally respected expert in the field of optical characterization of carbon-based nanostructures. She has a leading activity on the application of Raman spectroscopy to carbon films, nanotubes and graphene. This technique is used as non-destructive characterization tool in order to probe and tune the properties of carbon-based nanostructures for technological applications. Her work on carbon films strongly contributed to the development of ultra-high density data storage in magnetic and optical disks and ultra-long storage in plastic bottles. Her work on graphene produced strong advancements in graphene science and technology. Dr Casiraghi has published ~40 peer-referred publications in top-level journals, which have been cited more than 3500 times. Currently, Dr Casiraghi is investigating the use of graphene and new two-dimensional materials for fuel cells, sensors, photovoltaics and in membranes technology.