



## **Dr. Angel Barranco**

Instituto de Ciencia de Materiales de Sevilla,  
Spain

---

**Dr. Barranco** received his BA in Physical Chemistry from the University of Granada (1995) and his PhD from the University of Sevilla in 2002. After three postdoctoral periods in the CNRS (Poitiers, France, 2002) EMPA-ETH (Switzerland 2003-2004) and the University of Seville (Ramon y Cajal phellow (2005-2006) he got a tenured position in the National Research Council of Spain (CSIC) in 2007. Since 2016 he is Senior Scientist in the Materials Science Institute of Seville (ICMS-CSIC-US).

His scientific career is focused on the development of multifunctional materials in the form of thin films, multilayered supported nanostructures, and functional surfaces from both a fundamental and applied point including the development of devices (photonic sensors, solar cells, optical devices). He has extensive experience in the use of plasma discharges for the synthesis and treatment of materials and in the development of a large number of high-vacuum reactors and plasma reactors (PECVD). It is worth highlighting the original development of a deposition technique that uses remote plasmas known as Remote Plasma Assisted Vacuum Deposition (RPAVD) which has been the subject of two international patents and a growing number of national and international projects and PhD theses. At present, Dr. Barranco is the Group Leader of the Nanotechnology and Plasma Group in the ICMS. (12 staff researchers <https://sincaf.icms.us-csic.es>) where he lead a research line about the development of multifunctional materials by plasma and vacuum techniques. He is co-author of 150 research articles and 13 patents, 3 of which have been transferred to industry and 2 are in the process of evaluation by companies.