

Manuel Belmonte received his Ph.D. degree (1995) in Chemistry from University Autónoma of Madrid, Spain, developing ceramic matrix composites with improved tribological and mechanical properties at the Institute of Ceramics and Glass (ICV-CSIC), Spanish National Research Council (CSIC). After about a six years industrial experience in Lucent Technologies Inc. (formerly AT&T) as R&D photolithographic engineer and more than two years as postdoctoral fellow at NIST (USA) and University of Aveiro (Portugal), he joined at ICV-CSIC in 2004 as senior researcher within the Technical Ceramics Group. His current research interests involve the design and development of multifunctional ceramic composites containing carbon nanostructures (nanotubes and graphene), and the 3D printing by robocasting of cellular ceramics and composites. These research activities are inspired by the increasing interest in economic and environmental issues linked to the development of more efficient processes, reducing the energy losses linked to friction phenomena and improving the conservation and re-use of waste heat in conventional systems. He has published about 120 peer-reviewed scientific papers. Besides, he is co-inventor of 4 patents and lecturer in Master and Doctoral courses in national and foreign universities.