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Prof. Domínguez Rodríguez performed his PhD in Physics at the Laboratoire de Physique des Matériaux CNRS in Paris (France) advised by Prof. Jean Philibert and Prof. Jacques Castaing. In 1986 he was appointed as full professor at the Department of Condensed Matter Physics at the University of Seville where he founded the group of Mechanical Properties of Solids in 1974. In 1984, he spent a sabbatical in the Department of Materials Science and Engineering at Case Western Reserve University (Cleveland, Ohio).

His scientific work covers most aspects of the modern trends in advanced structural ceramics, from sintering science to high-temperature mechanical testing, characterization and modelling of the mechanical response of advanced monolithic ceramics and ceramics composites. Nowadays he is focused on the analysis of the high-temperature creep and room-temperature toughness and hardness of nanostructured advanced ceramic systems prepared by new sintering techniques such as the spark-plasma or microwave-enhanced fast heating sintering.

Prof. Domínguez-Rodríguez's expertise has been recognized by international scientific organizations (Fellow of the American Ceramic Society since 2002). He was awarded with the "Maimonides Award" for his major scientific accomplishments and his continuous dedication to science and formation of young researchers in 1997. He is a member of the Seville Royal Academy of Science (Spain). He has also contributed to improve the scientific standards of the Spanish scientific community in Materials serving as Head of the National Committee for Evaluation of Research Activity (ANEP) during four years (2000-2003). Prof. Domínguez-Rodríguez has coauthored more than 300 publications in major journals included in the SCI database.