

Our Team



DR. ALEXANDER TSELEV is a Principal Researcher at CICECO-Aveiro Institute of Materials. He obtained his PhD in Materials Science from Dresden University of Technology, Germany, in 2000, and before joining the University of Aveiro, he held research positions at several universities in the USA. His research interests include development and implementation of the scanning probe microscopy techniques. He co-authored over 115 scientific papers and holds one US patent.

DR. ANDREI KHOLKIN obtained his PhD from the Ioffe Physical-Technical Institute, Russia. After that he held a number of research positions in Germany, Switzerland and US. He is currently a chief scientist and head of the laboratory of advanced microscopy of nanomaterials in the University of Aveiro (Portugal). His group develops multifunctional materials and scanning probe microscopy techniques. He is the author/coauthor of about 500 technical papers in this area (h-index 48) and won a number of prizes including IEEE Fellow and Ferroelectrics Recognition award.

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Supported by the European Union under the
HORIZON2020 Framework Programme
Grant Agreement no. 760662

Who we are

The University of Aveiro (UA) is a young university, founded in 1973, with over 15500 full-time students (Grad. and Post-graduation). The University has a strong research profile, a unique model of governance (16 Departments, 4 Polytechnic Schools and various training centre's), acting as a regional network for education and training promoting strong links with the surrounding community and was a pioneer in launching degrees in new subject areas.

Despite being a young university, it has already achieved international recognition for the quality of both its teaching and its research.

The UAVR seeks to develop and maintain a supportive research environment, where individuals are valued and provided with the support they require. Students and researchers can count with a solid and experienced administrative, financial and legal structure composed by several offices, integrated in different services, from which we highlight: the Research Support Office (GAI), the Management of Human and Financial Resources, the Technology Transfer Office (UATEC) and the Mobility Centre.

CICECO - Aveiro Institute of Materials, is an Associated Laboratory of the UA and joins some 389 chemists, physicists and materials engineers making it the largest Portuguese Materials Science and Engineering (MS&E) institute (www.ciceco.ua.pt).

Created in 2002, the institute has contributed to the development of scientific and technological knowledge necessary for the innovative production and transformation of materials, for a sustainable development and the benefit of society, (from ceramics to soft matter and hybrids).

With a solid international profile, 44 % of 41 full-time researchers, 30% of 104 post-docs and 18% of 119 PhD students are foreigners.

CICECO national and international scientific recognition is reflected in the participation on several European Excellence Networks. Moreover, in the last National Science Foundation (FCT) research assessment, CICECO was ranked 24.5 in 25 points (Excellent) and placed among the top 5% of research units in all fields of knowledge. In 2017, 431 SCI papers were published (57% Q1), 31 PhD and 103 MSc theses were finished, and 6 patents (2 international) were filed.

Our product & services



CICECO has been actively engaged in European projects (> 70) mainly within the R&D Framework Programmes with more than 50 projects financed (FP5, FP6, FP7 and H2020 including three ERC grants).

CICECO has also been building an excellent track record of working with industry, with near 3 M€ per year funding coming from industrial projects and services. CICECO IP portfolio includes 135 patents filled (53 international).

Its instrumental facilities are the best in the country for MS&E, including SEM, TEM, AFM, X-ray diffraction, NMR, vibrational spectroscopies, measurement of optical, magnetic, electric, thermal, mechanical properties, furnaces, autoclaves, reactors, ALD, CVD, a computer cluster, etc. Aligned with its dynamic strategy, CICECO researchers are given starting up financial support, depending on the nature of their work, and a per annum allowance, determined by their scientific productivity and technology transfer performance.

Beside CICECO facilities, CICECO research teams can also access all UA equipment and resources, considering its University of Aveiro Associated Laboratory profile.