Pedro Barquinha, PhD
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Pedro Barquinha is an Associate Professor at the Materials Science Department of NOVA Science and Technology School (FCT-NOVA), working in oxide, flexible and transparent electronics since 2004 through the participating in >40 national and international research projects in the area, with academia and industry. He built a solid and internationally recognized reputation in this area, proven by multiple indicators: >170 peer-reviewed scientific articles (h-index=49, as October 2021), 3 books and 7 book chapters, >50 invited lectures in international events, editor for thin-film transistors at IEEE Electron Device Letters, track co-chair and organizer of multiple symposia in international conferences. He also co-authored 5 international patents, granting also direct contracts with international SME/industries to advance the penetration of flexible electronics into the market. In 2016, he got an ERC Starting Grant (TREND) to take sustainable oxide electronics towards nanoscale, pursuing low temperature synthesis routes of oxide nanostructures and nanodevice/nanocircuit integration, complemented by device modelling/simulation, targeting multifunctional and self-powered smart surfaces. His research has a direct impact in his teaching activities in MSc and PhD courses, enabling students to contact with the latest advances on nanofabrication and oxide electronics during lectures and hands-on laboratory sessions. 4 PhD and 37 MSc students concluded their dissertations under his supervision The dissemination of his work to general public has been a key action over the last years, bringing to the attention of kids and adults how the complex science and technology developed at FCT-NOVA can impact their daily life toward a more sustainable and interactive world.