

Bruno Torre is an experimental physicist and nanoscience researcher at the Istituto Nazionale di Ricerca Metrologica (INRiM), working in the field of nanoscale science and technology within

materials metrology and life sciences. He holds a Laurea and a PhD in Physics from the University of Genoa and has obtained the Italian National Scientific Qualification for Associate Professor in Experimental Physics of Matter and Applied Physics.

His research focuses on advanced nanoscale characterization and instrumentation, including atomic force microscopy, scanning probe microscopy, STM/STS, Raman and enhanced Raman spectroscopies, nanoplasmonics, hot-electron nanoscopy, cryogenic and UHV techniques, nanofabrication, and metrological methods for materials, biomolecules, biointerfaces and energy- storage systems. He has held research and laboratory-leadership roles at IIT, KAUST, Politecnico di Torino and INRiM, contributing to the design and setup of multidisciplinary laboratories for AFM/SPM, optics, nanobio-photonics, clean-room processes and biosample preparation.

His scientific production includes more than 75 publications; Europe PMC reports 76 publications in his ORCID record, while his Google Scholar profile reports 2,267 citations, h-index 23 and i10-index 39, with research areas listed as physics, material science and biophysics.

He is inventor or co-inventor of seven patents and has contributed to national, European and industrial research projects, combining fundamental experimental physics with applied nanotechnology, advanced instrumentation development, laboratory management, technology transfer and interdisciplinary research coordination.