

Dr. Grillo received his physics PhD in electron microscopy from the University of Parma, partly working in Erlangen University (Germany) with a thesis on new TEM methods for the characterization of quaternary alloy (e.g. InGaAsN). In 2001-2 he worked on cathodoluminescence in TEM at the Tokyo Institute of Technology (Japan). Since 2003 he has been working in CNR as staff (since 2008) scientist now with the role of “Dirigente di Ricerca” equivalent of research professor.

He has developed the first quantitative use of STEM for chemical analyses and parallel computing approach to STEM simulation. For his work he is chairman at the European Microscopy Conference (EMC2016). Since 2012 he pioneered the use of phase holograms for vortex beams and holographic beam generation, but also theory of spin-orbit devices in a TEM (Patented). Invited speaker in more than 20 conferences, Grillo has been guest-scientist for 10 months at the University of Oregon (Prof. Ben McMorrان). He has recently received the **Friedrich Wilhelm Bessel award** by the Alexander von Humboldt foundation and visited for one year the Forschung Zentrum Juelich.

He is the coordinator of QSORT and MINEON European project and QP leader of SMART electrons. He is also consultant of the Ernst Ruskin center (Juelich) and university of Ottawa for new microscope developments. Dr. Grillo is co-author of more than 100 articles and 5 chapters on books. His H-factor is 38 on ISI WEB or 38 on GScholar.