
Dr. Bernard Gil

Centre National de la Recherche Scientifique
Laboratoire Charles Coulomb
University of Montpellier, France



Bernard Gil, born 1957, has been Researcher at the CNRS (National Center of Scientific Research) since 1982. He was promoted Director of Research in 1995. He is today Director of Recherche of Exceptional Class at the Institute of Physics (INP). He is an experimentalist, expert in the measurement of the coupling between the electromagnetic field and the electronic states of solids. He started his activity by piezo- (hydrostatic pressure, uniaxial stress) spectroscopic studies of nitrogen impurities in bulk III-V compounds and moved in 1986 to quantum wells based on III-V and II-VI cubic semiconductor compounds. He has been studying in depth the optical properties of semiconductors, with, since 1994, some specific interest to the nitride semiconductors for compact-solid state lighting and energy savings linked to the utilization of this technology. He is currently very much concerned by Quantum Technologies and by the emission of light in the deep ultraviolet range, for the eradication of pathogens, using as an active material boron nitride grown under different polytypes. Gil was awarded in 2012 Doctor Honoris Causa of the University Saint Petersburg, and in 2013 Doctor Honoris Causa of the Meijo University of Nagoya. He is the 2018 laureate of the Welker Award. His Google Scholar Citation records indicate 17000 citations, a Hirsch factor of 62.

Keywords: wide gap semiconductors, quantum technologies, photonics, solid state lighting,