

**Jean-Michel Gérard** is a research director at French Alternative Energies and Atomic Energy Commission - CEA. He has been head of Quantum Photonics, Electronics and Engineering Laboratory - PHELIQS (staff~120) from its creation in 2016 to 2020. He has given pioneering contributions to the development of quantum dot (QD) growth method and to nanophotonics (single QD spectroscopy, cavity quantum electrodynamics experiments with QDs, QD single photon sources) for which he has received the “Prix fondé par l'Etat” from French Academy of Sciences in 2005, the “Quantum Device Award” founded by Fujitsu Corp in 2008 and the Leon Brillouin Great Prize of the French Optical Society in 2016. His present research aims at developing advanced optoelectronic devices based on quantum electrodynamics effects in cavities or photonic wires, such as quantum light sources, hybrid optomechanical systems and ultrafast photonic switches. He has published around 380 papers indexed on the Web of Science (14 700 citations, H = 58), presented more than 150 invited talks at international conferences and schools, and has registered 18 patents.

Selected publications:

M. Munsch et al., *Dielectric GaAs antenna ensuring an efficient broadband coupling between an InAs quantum-dot light emitter and a Gaussian optical beam*, **Phys. Rev. Lett.** 110, 177402 (2013)

A. Artioli et al., *Design of Quantum Dot-Nanowire Single-Photon Sources that are Immune to Thermomechanical Decoherence*, **Phys. Rev. Lett.** 123, 247403 (2019)

S. Kotal et al., *A nanowire optical nanocavity for broadband enhancement of spontaneous emission*, **Appl. Phys. Lett.** 118, 194002 (2021)

M.A. Jacobsen et al., *Performance of the nanopost single-photon source: beyond the single-mode model*, **Nanoscale** 15, 6156 (2023)

M. Finazzi et al., *On-chip electrostatic actuation of a photonic wire antenna embedding quantum dots*, **Nano Lett.** 23, 2203 (2023)