

## **CV Alessandro Belardini**

Associate Professor (Experimental Physics) at  
Dipartimento di Scienze di base e applicate per l'Ingegneria  
Sapienza Università di Roma

### **Education**

26/07/2018 Italian Professorship Qualification (ASN 2016) Full Professor level (02B1)

18/03/2005 Ph.D. in Physics, Università degli Studi "Roma Tre"

06/11/2001 M.S.: Sapienza – Università di Roma (Italy), Electronics Engineering, 2001.

He is working on characterization of self-assembled plasmonic metasurfaces. In particular, he characterizes the chiral properties and the morphological properties of metallic nanostructures by using the second harmonic generation signal. He is co-author of over 100 technical and scientific papers published in physics oriented International Journals.

His research interest involves the fields of:

- Second harmonic generation in nanoplasmonic materials
- Second harmonic generation in metallo-dielectric nanostructures
- Second harmonic generation in hybrid organic metallo-dielectric nanostructures
- Optical delay line and nonlinear interaction in femtosecond and picosecond regime
- Measurement and characterization of the electro-optic properties of organic molecules
- Photorefractive solitons

He was invited in 7 conference talks and presented over 35 conference talks among Europe and USA.

### **Main 5 publications in the last years:**

- 1) Nanoscale 8 (42), 18161-18169 (2016).
- 2) Adv. Optical Mater. 2017, 1601063 (2017).
- 3) Scientific Reports 7, 45247 (2017).
- 4) Scientific Reports 8, 5716 (2018).
- 5) Applied Physics Letters 114, 053101 (2019).