

NANOPHOTONICS AND **MICRO/NANO OPTICS**
INTERNATIONAL CONFERENCE / SEPT 13-15, 2017
BARCELONA

Controlling Light-matter Interactions on the Nanometer Scale

Prof. Lukas Novotny
ETH Zürich, Switzerland

The past 20 years have brought exceptional control over light-matter interactions on the nanoscale. Today, localized optical fields are being probed with nanoscale materials, and, vice versa, nanoscale materials are being controlled and manipulated with localized fields.

I will discuss both early and recent developments in near-field optical spectroscopy and optical nanomanipulation and then focus on recent experiments on antenna-coupled quantum emitters and vacuum-levitated nanoparticles.