

1. Record Nr.	UNINA9910688576103321
Autore	Schwab Patrick
Titolo	Optische Antennen aus Al und Au: Anregungskonzepte und Einfluss der Oxidation
Pubbl/distr/stampa	KIT Scientific Publishing, 2016
ISBN	1000057622
Descrizione fisica	1 electronic resource (VII, 317 p. p.)
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Optical antennas are metallic nanostructures showing a resonant behaviour which can be tuned at wish. In this work, optical antennas from aluminum and gold are fabricated, optically characterized and investigated numerically by FDTD methods. Aluminum allows resonances in the UV while it forms an oxide layer in air which alters the antenna response. For the first time, the results from a local electrical excitation of nanoplasmonic structures via STM is presented.