

Colloquium Nanophotonique

Nanoplasmonics from biosensing to biomonitoring

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I will report on our recent efforts to utilize the unique plasmonic properties of noble metal nanoparticles for sensing and controlling nano- and microscale processes. The use of optical forces and of local optothermal heating has been in the focus of our investigations. Examples range from fast optothermal DNA analysis and amplification, controlled laser printing experiments up to direct optical monitoring of microfluidic flow generated by bacterial flagellar rotation.

AUDITORIUM
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