Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics. This journal is © the Owner Societies 2017

Electronic Supplementary Information

Effect of Adsorption Kinetics on Dissociation of DNA-Nucleobases on Gold Nanoparticles under Pulsed Laser Illumination

R. Schürmann^{a,b} and I. Bald^{a,b}*

^aInstitute of Chemistry, Physical Chemistry, University of Potsdam, Karl-Liebknecht-Str. 24-25, 14776 Potsdam, Germany

*Email: bald@uni-potsdam.de

^bBAM Federal Institute for Materials Research and Testing, Richard-Willstätter-Str. 11, 12489 Berlin, Germany

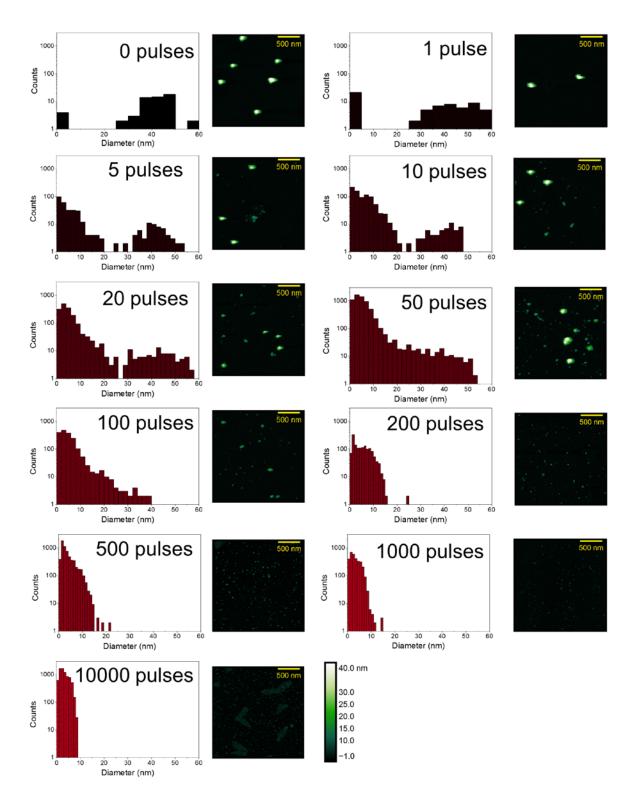


Figure S1: AFM images and size distribution of GNP with a nominal size of 40 nm dried on a Sisubstrate after irradiation with a certain number of laser pulses.

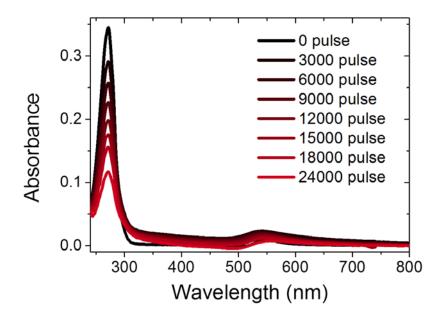


Figure S2: Absorbance spectra of irradiated ^{8Br}A and GNP corrected by subtracting a spectrum of the pure GNPs irradiated under the same experimental conditions. The features for wavelengths above 300 nm are caused by the aggregation of the nanoparticles.

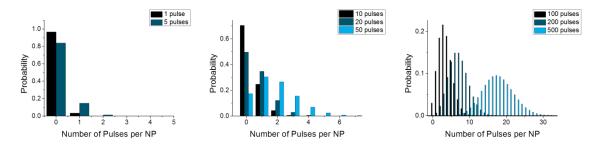


Figure S3: Poisson probability distribution of laser pulses that hit a GNP in the illuminated area.

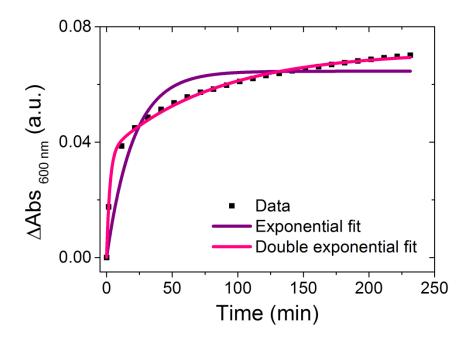


Figure S4: Increase of the Absorbance at 600 nm of irradiated GNP after the addition of 20 μM Cytosine.