

Electronic Supplementary Information for “Nucleation and growth of gold nanoparticles initiated by nanosecond and femtosecond laser irradiation of aqueous  $[\text{AuCl}_4]^-$ ”

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‡: Denotes equal contributions

AuNPs from 100 mJ ns pulses

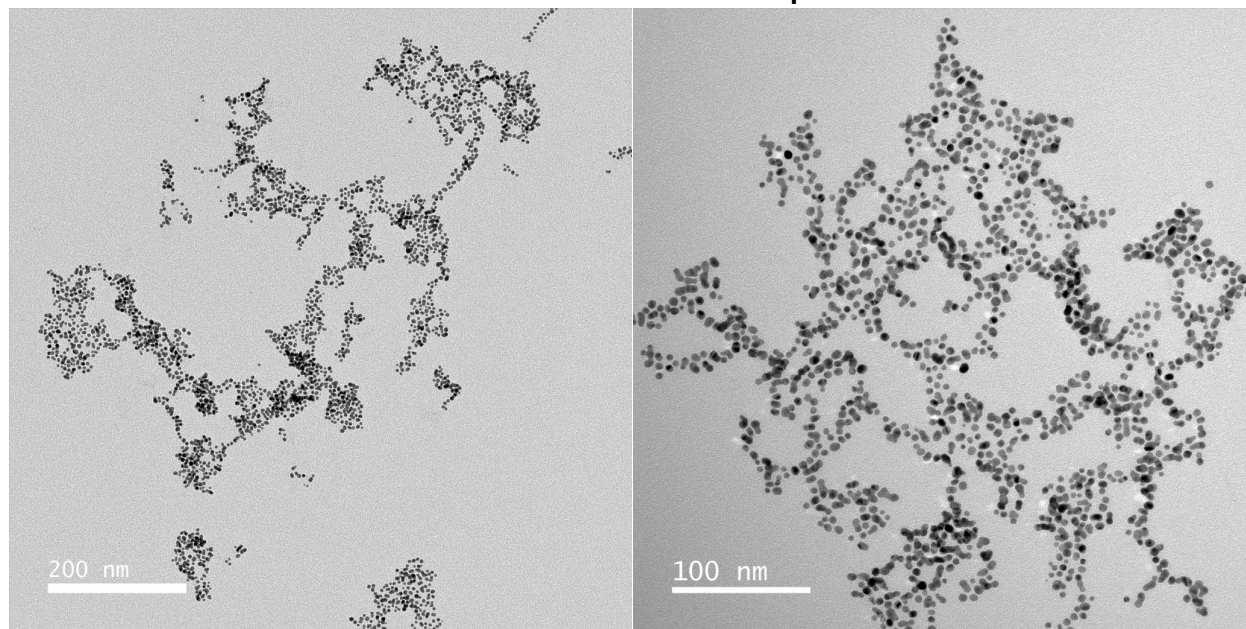


Figure S1: TEM images of AuNPs synthesized with 100 mJ ns laser pulses.

### AuNPs from 67 mJ ns pulses

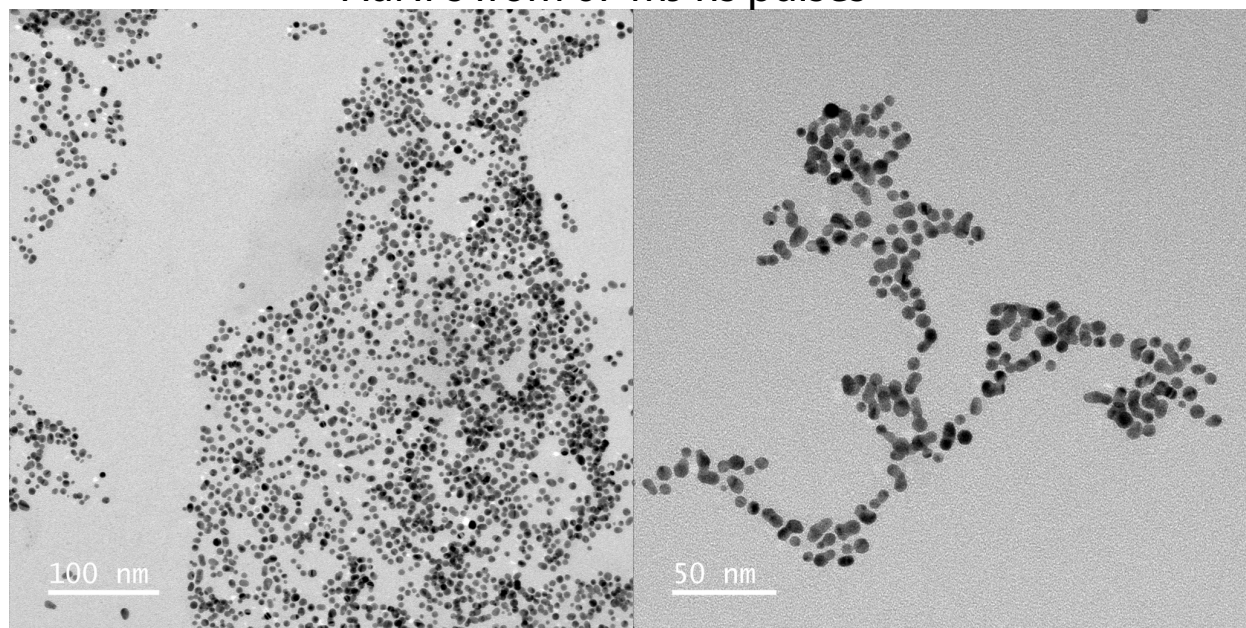


Figure S2: TEM images of AuNPs synthesized with 67 mJ ns laser pulses.

### Citrate-AuNPs after ns laser irradiation

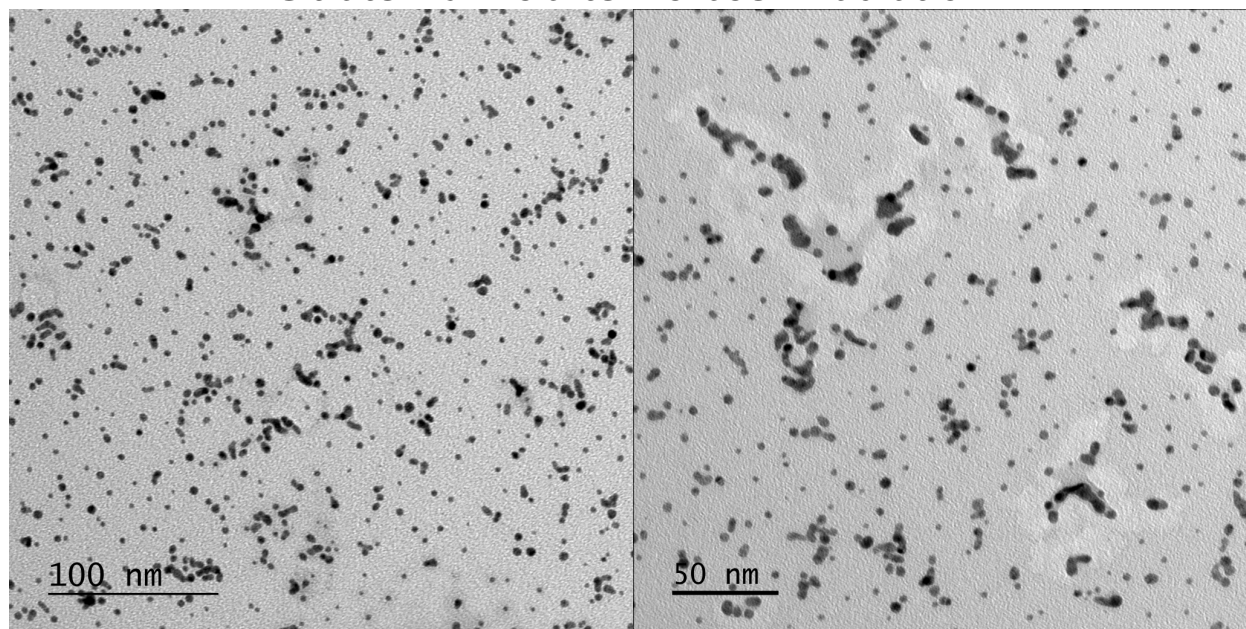


Figure S3: TEM images of citrate-AuNPs irradiated with ns laser pulses.

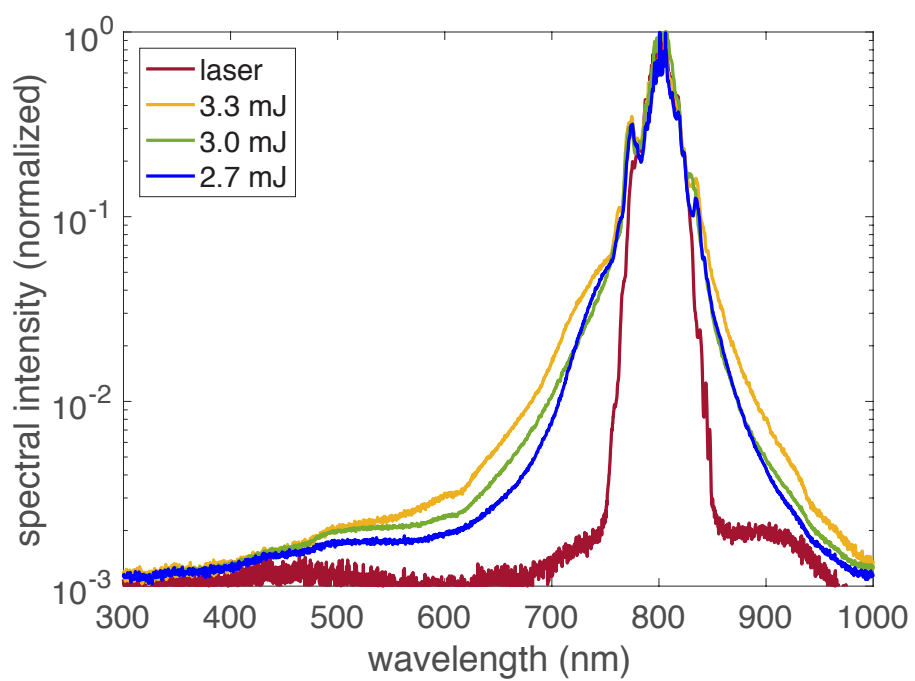


Figure S4: Supercontinuum emission spectra for fs pulses at various powers