

Dual light-responsive shape transformations of a nanocomposite hydrogel sheet enabled by in-situ etching shaped plasmonic nanoparticles

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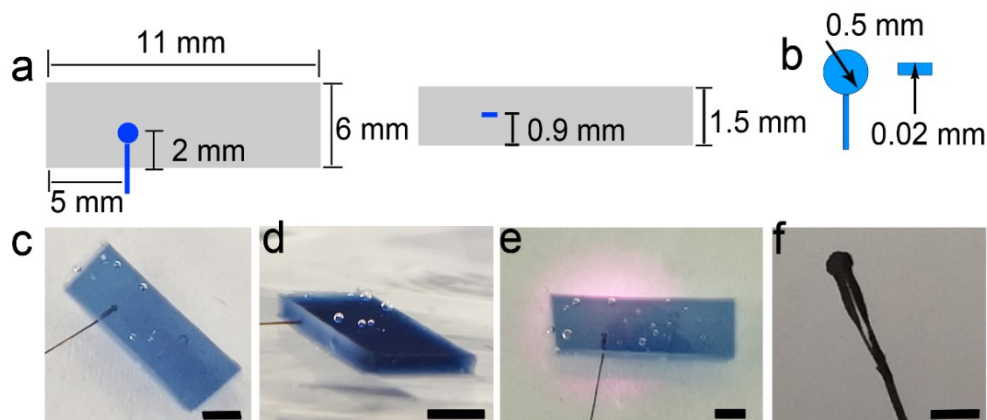


Figure S1. a) Dimensions of the hybrid hydrogel sheet (length: 11 mm; width: 6 mm; thickness: 1.5 mm) with silver nanoprisms and the location of the thermo-couple (colored blue) in the sheet used for temperature measurement under laser irradiation of 808 nm wavelength; b) dimensions of the thermo-couple used; c, d, e) different views of the hybrid sheet with silver nanoprisms and the inserted thermo-couple shown by the photo images; f) photo image of the thermo couple used. Scale bar: 3 mm in c-e) and 1 mm in f).

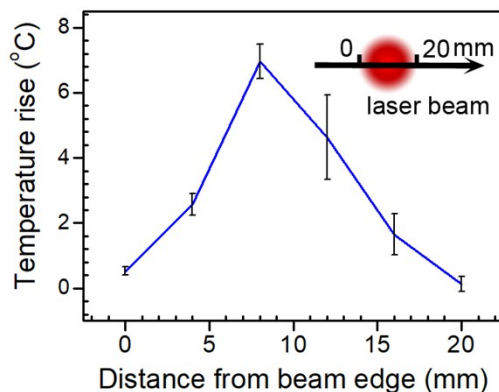


Figure S2. Rough measurement on the laser intensity distribution within the laser spot by using the thermo couple that was irradiated by laser for 5 seconds in water. A higher temperature rise suggests a larger laser intensity in the laser spot.