the resonance wavelengths of gold ring trimers are influenced by the ring geometry and their spacing providing a flexible tool to tune and control the spectral properties on demand. Furthermore, the sensing properties of such nanostructures to the bulk refractive index changes of environments have been also investigated. The sensitivity of the nanoring trimer SPR to the optical index of the surrounding medium was found to be much larger than that reported for nanodisk trimers [20] and comparable to that of nanodisk heptamers [19].

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