Generating Spin Current from Mid Infrared Plasmonic Metamaterial Absorbers

Wavelength selective spin current is generated in the mid infrared rage by combining plasmonic metamaterial absorbers with platinum/yttrium-iron-garnet spintronic devices. The wavelength selectivity is attributed to the plsmonic resonance of the metamaterial absorber.

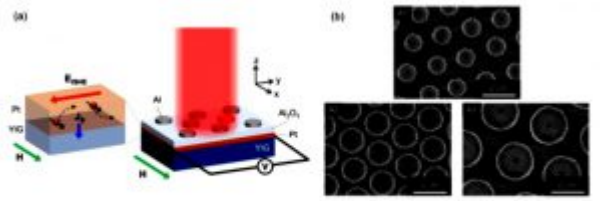

Fig. 1. (a) Schematic of the sample. (b) SEM images of the samples A1, A2 and A3.

For more information: https://www.osapublishing.org/abstract.cfm?uri=CLEO_QELS-2018-FF2F.8