Construction of a picosecond multiplex CARS microscope

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ABSTRACT

We report a multiplex CARS microscope based on the supercontinuum generation in large-mode-area photonics crystal fiber, and demonstrate 3D imaging of PMMA microsphere.

Figure 1. (a) Bright-field image of PMMA microspheres. (b) Spectra of PMMA microspheres and immersion oil. The extracted 3D image using the PMMA Raman peak information.