Supporting Information:

Facile synthesis and optical waveguide property of single-crystal 1,2,3,4,5-pentaphenyl-1,3-cyclopentadiene microrods

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Experimental section

The as-prepared products were stable in air and characterized of scanning electron microscopy (SEM, Quanta 400 FEG), transmission electron microscopy (TEM,Tecnai G2 F20 S-Twin), X-ray diffraction (XRD, X'Pert-Pro MPD), Fourier-transform infrared spectroscopy (FT-IR, Nicolet 6700), ultraviolet-visible spectroscopy (UV-vis, Perkin-Elmer Lambda 750), and fluorescence microscope (Leica DM 4000M). The photoluminescence (PL) images, fluorescence spectra, and spatially resolved PL spectra of a single microrod were recorded by Lab RAM HR higher solution Raman microscope with a focused laser (405 nm).

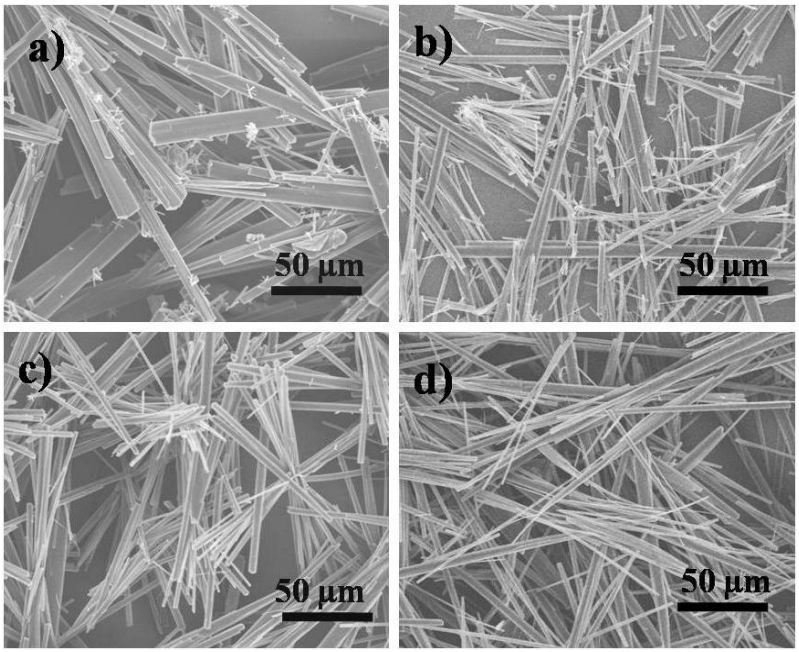

Fig. S1.SEM images of PPCP microrods obtained at different concentration of PPCP in THF: (a) 5 mM, (b) 7.5 mM, (c) 10 mM, and (d) 15 mM.

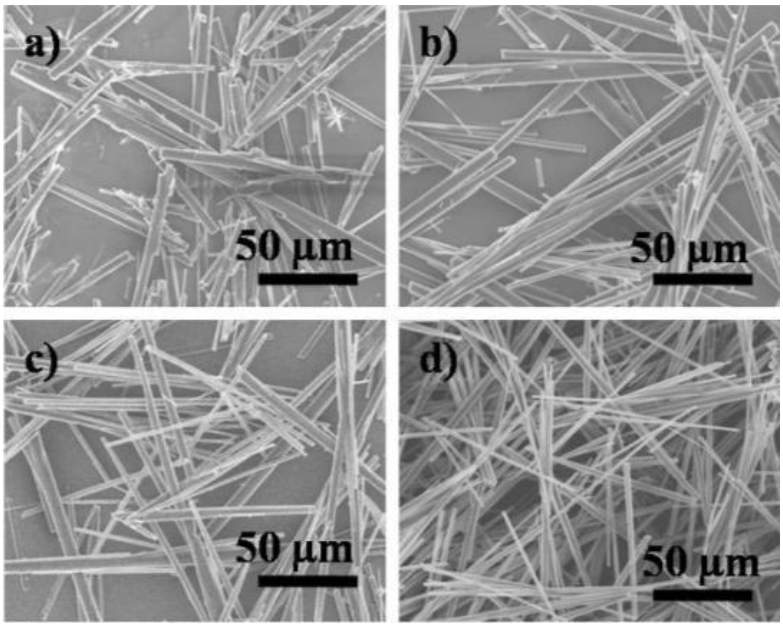

Fig. S2.SEM images of PPCP microrods obtained at different volume ratios of THF and ethanol: (a) 2:1, (b) 1:1, (c) 1:5, and (d) 1:10.

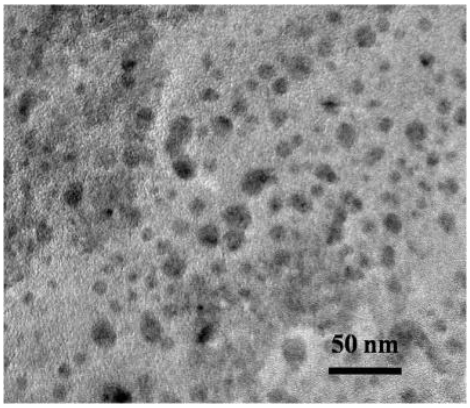

Fig.S3.TEM image of PPCP particles obtained when the water fraction was 70%.