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Manipulating upconversion luminescence intensity in a single crystal particle with waveguide structure

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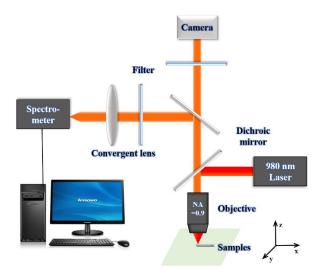


Fig. S1 Schematic setup of the confocal microscopy system for characterization of a single MT.

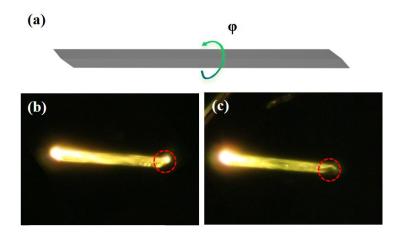


Fig. 1. (a) Schematic of a single β -NaYF₄: Yb³⁺, Er³⁺ MT with the wedge-shaped end plane. (b and c) UCL pattern photographs of the single β -NaYF₄: Yb³⁺, Er³⁺ MT when the rotation angle is 45° and 90°, respectively.