

Yb-doped KY(WO₄)₂ planar waveguide laser

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High-quality monoclinic KY(WO₄)₂ optical waveguides were grown by liquid-phase epitaxy, and laser operation of an Yb-doped KY(WO₄)₂ waveguide was demonstrated for the first time to our knowledge. Continuous-wave laser emission near 1 μm was achieved with both surface and buried planar waveguides. An output power of 290 mW was obtained in the fundamental mode and the slope efficiency was above 80%.

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