

Laser performance of Er-doped potassium double tungstate epitaxial layers

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Abstract

© 2018 IEEE. Laser operation of Er-doped epitaxial layer of monoclinic double tungstate composition grown onto undoped KYW substrate is demonstrated for the first time. Maximum output power of 16 mW with slope efficiency of 64% is achieved at 1606 nm under direct in-band pumping by a diode-pump Er,Yb-laser at 1522 nm.

<http://dx.doi.org/10.1109/LO.2018.8435888>

Keywords

Erbium, Lasers, Liquid Phase Epitaxy, Optical pumping, Optical waveguides

References

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