

Cryogenic Laser Operation of a “Mixed” Yb:YLuAG Garnet Crystal

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We report on the cryogenic laser performance of a new “mixed” Yb:LuYAG garnet crystal in the continuous-wave and pulsed regimes. We determined an optimum temperature of 140 K for efficient laser operation. A maximum output of 10.65 W with a slope efficiency of 56% was achieved.

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