Pr:YAIO3 microchip lasers operating at crystal temperatures close to liq- uid helium temperature

Tuesday, 30 August 2022 12:00 (2 hours)

Cooling of Pr:YAP crystals close to liquid helium temperature allowed to significantly improve the Pr:YAP laser performances with respect to room temperature, which yielded in Watt-level laser outputs at all studied wavelengths (747 nm, 622 nm, 547 nm, and 493 nm) under 4W InGaN laser diode pumping.

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