Pulse energy enhancement by means of fiber Bragg gratings in actively Q-switched Tm3+-doped fiber lasers operating at 2050 nm and 2090 nm

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

We present a Tm3+-doped actively Q-switched fiber laser providing pulse energies of 960 μ J with 20.5 kW peak power at a wavelength of 2050 nm and pulse energies of 720 μ J with 6.5 kW peak power at a wavelength of 2090 nm. The laser is ideally suited as a pump source for nonlinear frequency conversion.

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