The Rising Power of Random Distributed Feedback Fiber Laser

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Random distributed feedback fiber laser (RDFFL) has large application potential in remote sensing, distributed amplification, imaging and so on. In the present work, we will report the recent research progress of high power RDFFL and its application. Hundred-watt level output has been achieved in single-mode fiber. The RDFFL was then boosted to kilo-watt level output with one-stage power amplification for the first time. The RDFFL has also been used to pump Ho-doped fiber, and 23 watt laser operates at 2 micrometer band was achieved.