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# EFFICIENT FREQUENCY DOUBLING OF NEAR-INFRARED DIODE LASERS USING QUASI PHASE-MATCHED WAVEGUIDES



Cuvillier Verlag Mai 2015, 2015. Taschenbuch. Book Condition: Neu. 208x148x15 mm. Neuware - Single-pass frequency doubling of near-infrared (NIR) diode lasers in nonlinear bulk crystals allows to realize compact lasers in the green spectral region, offering continuous-wave (CW) laser radiation characterized by a high spectral brightness. In order to increase the efficiency of such laser systems, the application of quasi phase-matched waveguide structures instead of bulk crystals is investigated theoretically and experimentally. In particular, a complemented study of second-harmonic generation...

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- Authored by Daniel Jedrzejczyk
- Released at 2015



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