

230. Title: High-power Terahertz Radiation Based on a Compact Eudipleural THz-wave Parametric Oscillator

Author: Li Zhong-Yang. Yao Jian-Quan. Lu Da. Xu De-Gang. Wang Jing-Li. Bing Pi-Bin.

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Abstract: Tunable high-power THz-wave radiation is achieved via a compact eudipleural THz-wave parametric oscillator. The maximum THz-wave output is 1.164 V at 1.755 THz when the pump energy is 90mJ. In the experiments we find that the maximum output of THz-wave moves to the high frequency band as the pump energy increases and this phenomenon is reasonably explained. The polarization characteristics of the THz-wave are analyzed.