771

Accession Number

12266219

Author

Lu Jin-Xing. Huang Zhi-Ming. Huang Jing-Guo. Wang Bing-Bing. Shen Xue-Min.

Author/Editor Affiliation

Lu Jin-Xing. Huang Zhi-Ming. Huang Jing-Guo. Wang Bing-Bing. Shen Xue-Min. : National Laboratory for Infrared Physics, Chinese Academy of Sciences, Shanghai 200083, China

Title

Analysis of the effect of phase-mismatch and material absorption on the terahertz-wave generation from GaSe

Source

Acta Physica Sinica, vol.60, no.1, Feb. 2011, 024209 (7 pp.). Publisher: Chinese Physical Society, China.

Abstract

We analyzed the effect of phase-mismatch and material absorption on the terahertz-wave difference-frequency generation from GaSe theoretically. We calculated the best length of crystal and the corresponding terahertz power under four different conditions and the effect of angle-mismatch on phase-mismatch. The result provided a theoretical basis and reference to nonlinear optical difference-frequency experiments. (22 References).