Accepted Manuscript

Effect of the shape of quantum dots on the third-harmonic generations

Keyin Li, Kangxian Guo, Litao Liang

PII: S0749-6036(16)31564-6

DOI: 10.1016/j.spmi.2016.12.052

Reference: YSPMI 4756

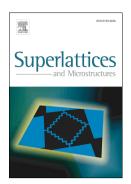
To appear in: Superlattices and Microstructures

Received Date: 22 November 2016

Accepted Date: 26 December 2016

Please cite this article as: K. Li, K. Guo, L. Liang, Effect of the shape of quantum dots on the third-harmonic generations, *Superlattices and Microstructures* (2017), doi: 10.1016/j.spmi.2016.12.052.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



ACCEPTED MANUSCRIPT

Effect of the shape of quantum dots on the third-harmonic generations

Keyin Li, Kangxian Guo*, Litao Liang.

(Department of Physics, College of Physics and Electronic Engineering, Guangzhou University, Guangzhou 510006, P.R. China)

Abstract: The effect of the shape of quantum dots on the third-harmonic generations is theoretically investigated. Using the effective-mass approximation, calculations are performed employing methods of both the compact-density-matrix and the matrix diagonalization. We discuss the properties of the third-harmonic generations (THG) coefficients as a function of the incident photon frequency in elliptic and triangular shaped quantum dots. The results reveal that the shape of quantum dots has a great influence on the third-harmonic generations.

Keywords: Quantum dot; The third-harmonic generations

^{*}Corresponding author: e-mail: axguo@sohu.com.

دريافت فورى ب متن كامل مقاله

ISIArticles مرجع مقالات تخصصی ایران

- ✔ امكان دانلود نسخه تمام متن مقالات انگليسي
 - ✓ امكان دانلود نسخه ترجمه شده مقالات
 - ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
 - ✓ امكان دانلود رايگان ۲ صفحه اول هر مقاله
 - ✔ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
 - ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات