

## TABLE OF CONTENTS

Volume 2 Number 3

September 2012

### Nonlinear Optical Studies of DNA Doped Rhodamine 6G-PVA Films Using Picosecond Pulses

S. Sreeja, B. Nityaja, D. Swain, V. P. N. Nampoori, P. Radhakrishnan, S. V. Rao.....135

### Effect of the Doping Layer Concentration on Optical Absorption in Si $\delta$ -Doped GaAs Layer

H. Dakhloui.....140

### Local Field Effects in the Luminescence of the Cone-Like Nanohills

V. Lozovski, A. Medvid, V. Piatnytsia.....145

### Study on the Effect of Monochromatic Light on the Growth of the Red Tide Diatom

#### *Skeletonema costatum*

H. L. Miao, L. N. Sun, Q. Z. Tian, S. S. Wang, J. Wang.....152

### Preparation and Microstructural, Structural, Optical and Electro-Optical Properties of La

### Doped PMN-PT Transparent Ceramics

F. A. Londono, J. Eiras, F. P. Milton, D. Garcia.....157

### New Technology for Grids and Scales Manufacturing in Optical Devices

V. S. Kondratenko, V. Y. Borisovskiy, A. S. Naumov, N. E. Petrusyan.....163

### Simulation of Diode-Pumped Q-Switched Nd:YAG Laser Generating Eye-Safe Signal in

### IOPO Environment

M. M. Ashraf, M. Siddique.....167

### Schrödinger Equation with a Cubic Nonlinearity Sech-Shaped Soliton Solutions

P. Hillion.....173

### Break up of $N$ -Soliton Bound State in a Gradient Refractive Index Waveguide with

### Nonlocal Nonlinearity

I. Darti, Suhariningsih, Marjono, A. Suryanto.....178

### Enhancement in Light Extraction Efficiency of GaN-Based Light-Emitting Diodes Using Double

### Dielectric Surface Passivation

C.-M. Yang, D.-S. Kim, Y. S. Park, J.-H. Lee, Y. S. Lee, J.-H. Lee.....185

### Primary Study of the Use of Laser-Induced Plasma Spectroscopy for the Diagnosis of Breast Cancer

H. Imam, R. Mohamed, A. A. Eldakrouri.....193

---

The figure on the front cover is from the article published in Optics and Photonics Journal, 2012, Vol. 2, No. 3, pp. 185-192 by Chung-Mo Yang, *et al.*