

TABLE OF CONTENTS

Volume 1 Number 2

June 2011

Scanning of the Sun and Other Celestial Bodies with Help of Gravitation Spectroscopy K. Zubow, A. Zubow, V. A. Zubow.....	15
Trace Gas Detection from Plant Leaves, Flowers and Seeds Using Conventional and Photothermal Light Deflection Spectroscopy M. I. Abu-Taha, Y. A. Abu-Rayan.....	24
How Fast a Hydrogen Atom can Move Before Its Proton and Electron Fly Apart? W. X. Xu.....	36
Computer Generated Quadratic and Higher Order Apertures and Its Application on Numerical Speckle Images A. M. Hamed.....	43
Scanning Holography Using a Modulated Linear Pupil: Simulations A. M. Hamed.....	52
Studies on the Inclusion Behavior of Amphiphilic <i>p</i>-Sulfonatocalix[4]arene with Ascorbic Acid by Spectrofluorometric Titrations Y. Y. Zhou, X. P. Ding, X. L. Fang, T. Li, D.B. Tang, Q. Lu.....	59
ZnSe/ZnS Quantum-Dot Semiconductor Optical Amplifiers K. H. Al-Mossawi.....	65
Nonlinear Refraction of Peripheral-Substituted Zinc Phthalocyanines Investigated by Nanosecond and Picosecond Z Scans Y. J. Li, T. M. Pritchett, J. D. Huang, M.R. Ke, W.F. Sun.....	70
First-Principles Study of the Optical Properties of SrHfO₃ H. Salehi, H. Tolabinejad.....	75
Determination of the Triplet State Lifetime of C₆₀/Toluene Solution and C₆₀ Thin Films by Pump-Probe Method C. B. Yao, E. Kponou, Y. D. Zhang, J. F. Wang, P.Yuan.....	81
An HC-PCF Fluorescence Spectroscopy for Detection of Microsphere Samples Based on Refractive Index Scaling Law V. K. Shinoj, V. M. Murukeshan.....	85

The figure on the front cover is from the article published in Optics and Photonics Journal, 2011, Vol. 1, No. 2, pp. 15-90, by K. H. Al-Mossawi.