

<<超快和纳米光学>>

图书基本信息

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内容概要

《超快和纳米光学》收集了32 articles that are presented in the international symposium of "Ultrafast and Nano Optics" held in Beijing University of Technology in October , 2007. A variety of focused topics were covered by this symposium , including ultrafast laser technology, laser micromachining, time-resolved spectroscopy, nano-fabrication and characterization, micro- and nano-scale organic and inorganic optoelectronics. The articles have been reorganized systematically so that they may provide a useful resource and a good reference for the graduate students and for the scientists in the fields of optics, laser technology, nanoscience and nanotechnology, and condensed matter physics.

书籍目录

Section Ultrafast Optics and Applications
 Polymer Optical Fiber Amplifiers Based on Conjugated Fluorene Oligomers
 Femtosecond Laser Applications in Micro/Nano Science and Technology
 Timing Distribution with Femtosecond Lasers
 Femtosecond Petawatt Ti:sapphire Laser in SIOM
 Femtosecond Filaments in Air: Multi-pulses Carrying Phase Dislocation
 Generation of High Energy Picosecond Laser Pulse at Near-Vacuum Ultraviolet by Sum Frequency
 Mixing of Amplified Ti:sapphire Laser
 Generation of 10 fs Laser Pulses at Repetition Rate of 525 MHz and Octave-Spanning Spectrum Broadening
 Cr:LiSAF Fs-lasers and Applications in Tradition Chinese Medicine
 Frequency Doubling VECSELs with LBO
 Supercontinuum Generation in Tapered Fiber and Propagation Characteristics of Femto-Second Pulse
 Even-and Odd-Parity Exciton-Dissociation States Resolved Using Tunable Multi-Photon Excitation in Polyfluorene
 Section Nano Optics and Technology
 Photonic Bandgap Structures with Organic Materials for Lasing Applications
 Temporal Dynamics of the Yellow Mn Internal Luminescence of Zn_{1-x}Mn_xS Nano-spheres of Different x
 Dimensional Dependence of the Transients of the Yellow Mn Luminescence in Zn_{1-x}Mn_xS Nanowires and Nanoribbons
 Optical Properties of the Microstructures of the Iridescent Scales in Butterflies
 Fabrication of Periodic Quasi-Crystals with Photonic Band Gaps Overlapping the Whole Visible Range
 Luminescent and Spectroscopic Applications of Photonic Nanostructures
 Holographic Design of Photonic Crystals with Large Complete Bandgap
 Experimental Nano-Mechanics of One-Dimensional Nanomaterials by In-situ Transmission Electron Microscopy
 The Research on Laser Microprocessing Technology
 Analysis of Negative Refraction of 2D Photonic Crystals with EFS Method
 Transmission Properties and Negative Refraction in Holographic Photonic Crystals
 Design of Photonic Crystal Based Four-Channel Drop Filters
 Optical Properties of Nanometer Metallic Structures
 Fabrication of Large-Area two-Dimensional Photonic Crystals of Metallic Nano-cylinders Using Colloidal Gold Nanoparticles
 Section Other Topics
 Studies of Two Miniature Light-Harvesting Antennae: A Peridinin-Pyropheophorbide Dyad and its Fucoxanthin Analogue
 Determination of the Electromechanical Coupling Coefficient of Quartz Crystals
 Fiber Loop-Mirror Sensor
 Acousto-Electro-Optic Device Using Surface Acoustic Wave
 Interaction Between Surface Acoustic Wave and Fiber Guided Optic Wave
 Wavelength Demodulation Device with High Resolution
 Analysis of Pulse Width Expanded on Diversified Dispersions in Fibers

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