

<<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.

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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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