Frontiers Of Optical Spectroscopy

DOWNLOAD HERE

- PREFACE- - LECTURES - INVESTIGATING PHYSICAL SYSTEMS WITH OPTICAL SPECTROSCOPY - - - 2. LIGHT-MATTER INTERACTIONS ON THE FEMTO-SECOND TIME SCALE - - - 3. PHOTONS AND PHOTON STATISTICS FROM INCANDESCENT LIGHT TO LASERS-CARRIER-WAVE NONLINEAR OPTICS - - - - 5. CAROTENOID EXCITED STATES-PHOTOPHYSICS. ULTRAFAST DYNAMICS AND PHOTOSYNTHETIC FUNCTIONS- - - SPECTROSCOPY OF QUANTUM WELLS AND SUPERLATTICES - - - - 7. LASERS FOR FRONTIER SPECTROSCOPY- - - COHERENT SPECTROSCOPY OF STRATIFIED SEMICONDUCTOR MICRO- AND NANOSTRUCTURES - - - 9. CONSEQUENCES OF EXTREME PHOTON CONFINEMENT IN MICRO-CAVITIES: I. ULTRA-SENSITIVE DETECTION OF PERTURBATIONS BY BIO-MOLECULES- - - 10. LUMINESCENCE PROPERTIES OF VERY SMALL SEMICONDUCTOR PARTICLES- - - 11. AN INTRODUCTION TO THE PHYSICS OF ULTRACOLD ATOMIC GASES- - - 12. LASER COOLING AND TRAPPING OF NEUTRAL ATOMS TO ULTRALOW TEMPERATURES - 13. TRAFAST STRUCTURAL DYNAMICS IN THE CONDENSED PHASE - - - 14. LANTHANIDE SERIES SPECTROSCOPY UNDER EXTREME CONDITIONS- - - 15. EXCITONIC BOSE-EINSTEIN CONDENSATION VERSUS ELECTRON-HOLE PLASMA FORMATION- - - 16. DYNAMICS OF SOLID-STATE COHERENT LIGHT SOURCES- - - 17. SOME ASPECTS OF INTRAMOLECULAR ELECTRONIC ENERGY TRANSFER PROCESSES- - - 18. STIMULATED RAMAN SCATTERING SPECTROSCOPY OF FRONTIER NONLINEAR-LASER MATERIALS: ORGANIC CRYSTALS AND NANOCRYSTALLINE CERAMICS- -INTERDISCILINARY LECTURE - 19. STRANGE PROPERTIES OF QUANTUM SYSTEMS AND POSSIBLE INTERPRETATIONS - LONG SEMINARS - 20. MODULATION SPECTROSCOPY REVISITED- - - 21 ADVANCES IN SOLID STATE LASERS AT NASA LANGLEY RESARCH CENTER- -- 22 COMBINATORIAL CHEMISTRY TO GROW SINGLE CRYSTALS AND ANALYSIS OF CONCENTRATION QUENCHING PROCESSES: - APPLICATION TO Yb3+-DOPED LASER CRYSTALS- - - 23. Table-top soft X-ray lasers and their applications- - - 24. RARE EARTH ION DOPED CERAMIC LASER MATERIALS- - - 25. SHORT SEMINARS- - CONFOCAL FLUORESCENCE AND

RAMAN MICROSCOPY OF FEMTOSECOND LASER-MODIFIED FUSED SILICA- - OPTICAL CHARACTERIZATION OF QUANTUM DOTS- - NEW PHOSPHORS FOR ULTRAVIOLET EXCITATION - MAIN TOPICS OF INTERESTS IN THE AREA OF LUMINESCENCE MATERIALS- - INTERACTION OF FEMTOSECOND PULSES WITH TRANSPARENT MATERIALS- ULTRAFAST PHASE TRANSITIONS IN SOLIDS- - RELAXATION PATHWAYS FROM ELECTRONIC EXCITED STATES OF OXYGEN DEFICIENT CENTERS IN GE-DOPED SILICA- - DETECTING QUANTUM SIGNATURES IN THE DYNAMICS OF- TRAPPED IONS- - NON-EQUILIBRIUM POLARIZATION IN DIELECTRICS AND-RELATED PHENOMENA- - OPTICAL TRANSITIONS IN QUANTUM NANOSTRUCTURES BASED ON IONIC MATERIALS- - LEDS MAKE THINGS BETTER - 26. POSTERS - PHOTOREFLECTANCE AND LUMINESCENCE MEASUREMENTS OF GAINNAS/GAAS MULTIPLE QUANTUM WELL STRUCTURES- - SELF-CONSISTENT CALCULATION OF GROUND AND EXCITED ENERGY LEVELS OF A DOPED QUANTUM DOT BY A QUANTUM GENERIC ALGORITHM- - THE WIRES DIRECTION PHOTOCONDUCTIVITY OF GAAS/ALGAAS QUANTUM WIRES MEASURED ALONG- - HIGH EXCITATION SPECTROSCOPY OF ZnO- - PROPERTIES OF PECVD a-SiOx:H FILMS- - OPTICAL INVESTIGATION OF SPIN INJECTION INTO OPTICALLY ACTIVE NANOSTRUCTURES- -ULTRAFAST PHASE TRANSITIONS IN SOLIDS- - STIMULATED EMISSION OF Nd0.5La0.5Al3(BO3)4 RANDOM LASER AND THE THRESHOLD CONDITIONS FOR LARGE AND SMALL PUMPING REGIMES- - SPECTROSCOPY AND OPTICAL MICROSCOPY WITH NANO-LOCAL LIGHT SOURCES-- THE SIZE-EFFECT AND PHASE TRANSITIONS-EFFECT ON LUMINESCENCE PROPERTIES OF BaTiO3:Eu3+ NANOCRYSTALLITES PREPARED BY THE SOL-GEL METHOD- - ENERGY TRANSFER IN Nd3+ and Yb3+ DODOPED NANOMETRIC YAG CERAMICS- - ENVIRONMENT AND SHAPE EFFECTS ON DYNAMICS OF CdSe NANOCRYSTALS: COMPARING QUANTUM DOTS AND RODS- -GAMMA AND PROTON IRRADIATION EFFECTS ON KU1 QUARTZ GLASS- - FEATURES OF FEMTOSECOND LASER ABLATION OF SOLID TARGETS - STUDY OF THE SURFACE OF SrTiO3 SINGLE CRYSTALS BY OPTICAL SECOND HARMONIC GENERATION -- DLS MEASUREMENT OF NANOMETRIC CARBON CLUSTERS PRODUCED IN LAMINAR PREMIXED FLAMES EAN/ISBN: 9781402027512 Publisher(s): Springer, Berlin, Springer Netherlands Format: ePub/PDF Author(s): Di Bartolo, Baldassare - Forte, Ottavio

DOWNLOAD HERE

Similar manuals:

Frontiers Of Optical Spectroscopy