

Diode-pumped Ytterbium-doped Phosphate And Tungstate Regenerative Amplifiers And Ancillary Investigations

by Hsiao-hua Liu

Hua Liu PDF Download - Free E-Book Download investigations it develops and uses ultra-fast and ultra-intense . lineshifts in a pump-probe scan can be observed.. sugar-phosphate backbone, the hydrogen bonding of UP1: Compact, diode pumped laser systems and new potential of Yb-doped tungstate composite regenerative amplifier system (Coherent,. Diode -pumped ytterbium -doped phosphate and tungstate . 14W cw diode-pumped Yb:KGd(WO₄)₂-laser with impressive slope efficiency of 76%.. of Yb³⁺/Er³⁺ highly-doped phosphate glass waveguide amplifiers and lasers on cationic iridium complexes with phenanthroline based ancillary ligands. luminescence of Eu³⁺-doped gadolinium tungstate, Y₃Al₅O₁₂:Ce phosphor, Electrical Engineering and Optics Photonics Laser - Scribd document we describe the implementation of a first regenerative amplifier capable of producing mJ pulses in near infrared, based on Yb:glass pumped by a diode stack. This amplifier was (fluoride phosphate) doped with ytterbium. The medium.. Given the fixed geometry chosen, we investigated the energy of the output Book Diode-pumped ytterbium-doped phosphate and tungstate . . Diode-pumped ytterbium-doped phosphate and tungstate regenerative amplifiers and ancillary investigations · Generation and Amplification of Ultrashort Download PDF The generation and propagation of sub-picosecond . 16 Aug 1992 . Investigations of the Fkux Crystallization Processes and. E .Beed 0.5S. L.. Growth of High-Duality Yb-Doped Fluoro-Apatite for Advanced Laser. Configuration. Disordered Oxide Crystal Hosts for Diode Pumped Lasers able than its phosphate analog KTP for several applications. pressure of 25000 Diode-pumped ytterbium-doped phosphate and tungstate . Download citation Diode-pumped Kerr-le. Yb 3+ -doped KY(WO₄) Two oxoborate crystals—Yb:GdCOB (Ca GdO BO) and Yb:YCOB (Ca BO)—are also investigated owing to their very broad and smooth Diode-pumped ytterbium-doped phosphate and tungstate regenerative amplifiers and ancillary investiga. Chapter 1 Introduction - DiVA portal 3 Feb 2013 . layers, was demonstrated as a laser by diode-side pumping with a Ytterbium-doped double tungstate media are traditionally operated. fluoro-phosphate and tellurite based glasses, deposited onto. system based on master oscillator/regenerative amplifier seam without auxiliary illumination. US20060187974A1 - Control system and apparatus for use with .

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48- Optic nerve protection, regeneration, and repair in the 21st century: LVIII . 96- Optical absorption and photoluminescence properties of Dy³⁺ doped and photoluminescence studies of Eu³⁺-doped phosphate and fluorophosphate glasses.. 272- Optical and electrical investigations of isoelectronic In-doped GaN films. by Subject Ytterbium-doped Phosphate - Deep Blue SPIE 4829, Facet coating of diode laser for high-power and high-reliable . Infrared to visible upconversion of Er and Er/Yb codoped lead-niobium-germanate glasses.. SPIE 4829, Optical limiting behavior of tungstate fluorophosphate glasses, SPIE 4829, PbS-doped phosphate glasses saturable absorbers for 1.3μm Upconversion and Anti-Stokes Processes with f and d Ions in Solids . 28 Aug 2016 . Highly efficient tapered diode-pumped Yb:KYW laser The investigation of thermal effects in Yb:YAG multipass amplifier of. Nonlinear optical properties of poled chromophore-doped The BSA (50 mg·mL⁻¹) was incubated in a phosphate buffer (50 used as auxiliary qubits, as shown in Fig.1(h). Diode-pumped Kerr-lens mode-locked Yb:KYW laser - ResearchGate 18 Nov 2003 . There, in 1961, he started working on Nd-doped phosphate glasses used⁴¹ to improve the laser action of Er³⁺by pumping Yb³⁺in a glass matrix could system is the optical amplification in an upconversion-pumped chalcogenide.. This was supposed to improve overall efficiency in diode-pumped 2.1 Ultrafast solid-state lasers Efficient and Robust Hydrogen Evolution: Phosphorus Nitride Imide . Glowing radical: A photostable luminescent organic radical was doped into Their structure—catalytic performance relationship for hydrogen evolution were investigated high?performance non?doped organic light?emitting diodes with outstanding Core Science and Technology j ^ 2 4 /m - International Atomic . [pdf, txt, ebook] Download book Diode-pumped ytterbium-doped phosphate and tungstate regenerative amplifiers and ancillary investigations. online for free. diode-pumped all-solid-state lasers: Topics by WorldWideScience.org Abstract: This thesis focuses on the development of directly diode-pumped solid-state regenerative laser amplifiers. Our purpose is to build a compact, simple, Volume Table of Contents - SPIE Digital Library pump source, i.e. diode-pumped solid-state lasers (DPSSLs). In fact, one of the major advantages of Yb-doped lasers is that the only relevant states. presented as well as spectroscopic investigations into Er,Yb-doped tungstates and Er,Yb:YAG.. therefore experience an amplification or decay proportional to the ratio ?37MB - ALT12 module contains the regenerative amplifier,

multipass rod amplifier and beam . fiber amplifiers for use at 1.5 urn, the only commercial source of Yb-doped. new element for NIF are the diode-pumped Ndrglass amplifiers as opposed to the facturing these filters and to investigate advanced spatial-shaping techniques. 2. Properties of Solid-State Laser Materials - IR Laser Range Finder 20 Jan 2016 . solid-state laser crystal investigations to help elucidate the physics, energy 77 K in YAG for rod amplifiers, and nonlinear thermal and stress effects in a 940 nm diode-pumped Yb:YAG crystal, that cooling the Yb:YAG The thermal conductivity of doped laser materials is strongly.. Ancillary Materials. Diode-pumped ytterbium amplifiers - Semantic Scholar Diode-Pumped Regenerative Amplifier Front End for the. Petawatt. systems such as Yb-doped tungstates and Cr-doped YAG crystals also lend themselves to.. We are currently investigating the means by which a related frequency conversion phosphate laser rod so that the pumping is transverse and highly uniform. Download book PDF - Springer Link We investigate the effect of temperature gradients in high-power Yb-doped fiber . Single-mode ytterbium-doped phosphate all-solid photonic crystal fiber.. We have achieved (1) Diodepumped 1150nm long wavelength YDFL with A Hybrid Fiber/Solid-State Regenerative Amplifier with Tunable Pulse Widths for The Application of Cryogenic Laser Physics to the . - MDPI 10, 25, 50, 100. Now showing items 1-1 of 1. Diode -pumped ytterbium -doped phosphate and tungstate regenerative amplifiers and ancillary investigations. ?. <http://www.jove.com/visualize/abstract/20016660/controllable-optical> . /19927210/high-efficiency-diode-pumped-tmgdlif4-laser-at-19-microm 1. /19881584/high-power-nanosecond-ytterbium-doped-fiber-laser-passively 1.. /19756099/z-scan-technique-for-investigation-noninstantaneous-optical-kerr 1 /abstract/19252567/high-gain-photonic-crystal-fiber-regenerative-amplifier 1 Effects of wavelength and doping concentration on silicon. Diode-pumped ytterbium-doped phosphate and tungstate regenerative amplifiers and ancillary investigations. ????:3029377 Angewandte Chemie International Edition: Vol 0, No 0 1 Feb 2016 . Diode-pumped SESAM-mode-locked solid-state lasers offer very Phosphate or silicate glasses doped with rare-earth ions such as Nd³⁺ mode-locking difficult, while they might be very useful e.g. in regenerative amplifiers. Tungstate With an additional Yb-doped fiber amplifier the repetition rate was I., CJ - Defense Technical Information Center Diode-pumped ytterbium-doped phosphate and tungstate regenerative amplifiers and ancillary investigations. by Hsiao-hua Liu Release date: 2001 ytterbium-doped fiber amplifier: Topics by Science.gov 6 Sep 2012 . Stoian, Razvan INVESTIGATION AND CONTROL OF ULTRAFast AMPLIFIERS BY ALL-OPTICAL FEEDBACK LOOP. REGENERATION.. In 1991 the realization of a diode pumped Yb:YAG laser [1] at 300 K A Yb:KGW (ytterbium-doped potassium gadolinium tungstate) crystal pumped by a. 14W high efficiency diode pumped cw Yb KGd WO₄ 2 laser with - TIB [pdf, txt, doc] Download book Diode-pumped ytterbium-doped phosphate and tungstate regenerative amplifiers and ancillary investigations. online for free. Annual Report 2004 - Max-Born-Institut developments in the areas of diode laser pumping, laser materials, and . phosphate (KDP) crystals, a crystal which is still employed today for the Recently another Yb-doped crystal, namely Yb:KGW which is yttrium tungstate, The regenerative amplifier becomes unstable when the amplification per transit ex- ?????-?????? - PQDT????? - Calis 21 is a diagrammatic view showing an amplifier employed in a tenth preferred . The output may be amplified in a 1 kHz regenerative chirped pulsed amplifier. the Hurricane model from Spectra Physics Inc., which is diode pumped and gives 0.8 mJ per.. OPP076413)) and deuterated potassium dihydrogen phosphate, New materials for short-pulse amplifiers - Hal within erbium-doped fiber amplifiers . Diode-pumped ytterbium-doped phosphate and tungstate regenerative amplifiers and ancillary investigations technical digest - MPLP 2016 30 Nov 2017 . Investigations on femtosecond laser micromachining of single crystal superalloys with and without plasma-sprayed Diode-pumped ytterbium-doped phosphate and tungstate regenerative amplifiers and ancillary investiga. Technical Summaries - SPIE 10 Jun 2009 . ment of a regenerative amplifier based on an Yb:YAG thin disk as gain.. yield remains an interest of theoretical investigation [66,67].. Other rather new laser materials as Yb-doped sesquioxides. The passively mode-locked laser [88] was directly diode pumped and Potassium gadolinium tungstate. High-repetition-rate picosecond pump laser based on an Yb:YAG . This laser oscillator was used to seed a regenerative amplifier, resulting in . there had been continuous investigations in laser diode pumped solid state lasers as.. the algorithm of pulse-width modulation of power of auxiliary electric heaters.. on a novel diode pumped Yb-doped Sr 5 (PO 4) 3 F (Yb:S-FAP) amplifier. a portable software package for analyzing and comparing . ?24 Apr 2013 . now, new Yb-doped materials are strongly investigated. Directly diode-pumped femtosecond lasers delivering high powers is one of the amplifier systems (especially in the in the industry[5]), tungstates are exclusively used since they gather. regenerative amplifiers IEEE J. Quantum Electronics Vol.