

Erbium Doped Silicon Nanocrystal: For Optical Amplification And Lasing By Md. Tanbir Hasan;Sudip Saha;Md. Shakil Akter

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a silicon-based infra-red photodetector exploiting - A silicon-based infra-red photodetector exploiting erbium-doped silicon nanocrystals

exciton erbium interactions in si nanocrystal- - The presence of silicon nanocrystals in Er doped SiO₂ can enhance the effective Er optical Erbium-doped optical amplifiers are an important com-

spie | proceeding | silicon nanocrystal density - M. Q. Huda" Silicon nanocrystal density effects in sensitizing Up-conversion luminescence enhancement in erbium-doped porous silicon photonic crystals for

a silicon-based infra-red photodetector exploiting - ions results in a transfer of excitation from the erbium ion to nearby silicon nanocrystals. Exploiting Erbium-Doped Silicon Nanocrystals 2003 MRS

cheminform abstract: synthesis and - ChemInform Abstract: Synthesis and Characterization of Discrete Luminescent Erbium-Doped Silicon Nanocrystals.

study of erbium- doped silicon nanocrystals in - Study of erbium-doped silicon nanocrystals in silica R J Kashtiban 1, U Bangert , I F Crowe2, M Halsall2, A J Harvey1 and M Gass3 1 Nanostructured Materials Research

universidade do minho: erbium- doped silicon - Título: Erbium-doped silicon nanocrystals grown by r.f. sputtering method: competition between oxygen and silicon to get erbium: Autor: Cerqueira, M. F.

enhanced light emission in photonic crystal - Enhanced light emission in photonic crystal nanocavities with Erbium-doped silicon nanocrystals Maria Makarova,1,a Vanessa Sih,1 Joe Warga,2 Rui Li,2 Luca Dal Negro,2 and

erbium- doped slot waveguides containing - Scitation: Erbium-doped slot waveguides containing size-controlled silicon nanocrystals

erbium and silicon nanocrystals for light - (Erbium-Doped Waveguide Amplifiers) (Silicon Rich Oxide) Erbium and Silicon Nanocrystals for Light Amplification

rare earth doped silicon nanocrystals derived from - We describe the use of $\text{Er}(\text{tBuNC}(\text{CH}_3)\text{NtBu})_3$ as a dopant source in the preparation of silicon nanocrystals, particularly as regards their observed structure

investigation of light amplification in si- - Abstract. Abstract In this article the details of Erbium doped Fiber Amplifier (EDFA) in presence of Silicon nanocrystal (Si-Nc) is investigated.

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visible and infrared photoluminescence from erbium - Visible and infrared photoluminescence from erbium-doped silicon nanocrystals produced by rf sputtering

correlating structure and photophysics in erbium- - Jeffrey L. Coffey; Robert A. Senter and Junmin Ji "Correlating structure and photophysics in erbium-doped silicon nanocrystals", Proc. SPIE 4807, Physical Chemistry

high-efficiency erbium ion luminescence in silicon - The photoluminescence spectra and kinetics of both erbium-doped and undoped multilayer structures of quasi-ordered silicon nanocrystals in a silicon dioxide matrix

erbium- doped silicon and germanium - To overcome these limitations, one approach has been to implant the erbium ions alongside silicon nanocrystals into an oxide matrix, where the erbium centers have a

erbium- doped silicon nanocrystals grown by r.f - Abstract. Erbium doped micro- and nanocrystalline silicon thin films have been deposited by co-sputtering of Er and Si. Films with different crystallinity

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luminescence from erbium- doped silicon - Abstract. We develop a model for the excitation of erbium ions in erbium-doped silicon nanocrystals via coupling from confined excitons generated within the silicon

ucl discovery - the infra-red photoresponse of - Type: Proceedings paper: Title: The infra-red photoresponse of erbium-doped silicon nanocrystals: Event: Spring Meeting of the European-Materials-Research-Society (EMRS)

impact of erbium- doped silicon nanocrystals on - Impact of Erbium-Doped Silicon Nanocrystals on the Properties of Polyphenylene Vinylene Films MRS Proceedings. MRS Proceedings / Volume 638 MRS Proceedings.

the infra-red photoresponse of erbium- doped - level (process IV) that is responsible for emission around 1.54 m. Backtransfer of excitation from the erbium ion to the silicon host (process VI) becomes

fabrication and photoluminescence properties of - Fabrication and photoluminescence properties of erbium doped size-controlled silicon nanocrystals

erbium doping of silicon quantum structures - - The 1.54 m Er^{3+} photoluminescent properties of erbium doped silicon which consists of silicon nanocrystals embedded Erbium Doping of Silicon

photoluminescence of erbium ions in - erbium-doped silicon are promising for the fabrication properties of erbium-doped structures with silicon nanocrystals in a silicon dioxide matrix

ucl discovery - silicon nanocrystals in erbium- - Type: Article: Title: Silicon nanocrystals in erbium-doped silica for optical amplifiers: UCL classification: UCL > School of BEAMS > Faculty of Engineering Science

erbium and al o nanocrystals- doped silica - Erbium and Al₂O₃ nanocrystals-doped silica optical bers doped with silicon nano-particles , J. Non-Crystalline Solids 354 (2 9), 602 606 (2008).

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spontaneous and stimulated emission from erbium - Spontaneous and Stimulated Emission from Erbium Doped Silicon Nanocrystals Mathematical model has been developed for erbium luminescence in silicon nanocrystals.

size control of erbium- doped silicon nanocrystals - Size control of erbium-doped silicon nanocrystals Buy: USD28.00. 10.1063/1.1309022. John St. John 1, Jeffery L

oatd: tengattini, andrea - erbium and silicon - The thesis is divided into two topics: silicon nanocrystals based light emitting devices and erbium doped silicon nanocrystals devices. I have studied silicon

ieeexplore abstract - erbium doped silicon - Prospects of Erbium doped Silicon nano-crystal system in achieving on-chip optical amplification and lasing performance have been studied. The mechanism of energy

size control of erbium- doped silicon nanocrystals - Abstract: This work describes the effects of pyrolysis oven length and erbium precursor on the preparation of discrete erbium-doped silicon nanoparticles.

photoluminescence study of erbium-mixed alkylated - Photoluminescence Study of Erbium-Mixed Alkylated emission peak of erbium when the erbium doped silicon nanocrystals by different doping methods such as ion

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