

Spectroscopy Of Laser Crystals With Ionic Structure

by D. V Skobel'shtisyn

Site-selective laser spectroscopy, Zeeman infrared and optical absorption have been employed to investigate trivalent dysprosium centers in rare-earth doped . Advances in Spectroscopy for Lasers and Sensing - Google Books Result Lattice site of Mg ion in LiNbO3 crystal determined by Raman . Spectroscopy of Solid-state Laser and Luminescent Materials - Google Books Result 8 Dec 2014 . Spectroscopy of single Pr³⁺ ion in LaF₃ crystal at 1.5 K . Therefore, excitation by a single-frequency laser causes population transfer of the Pr nuclear spin to Figure 2: Electronic states and hyperfine structure of Pr³⁺:LaF₃. Optical Properties of 3d-Ions in Crystals: Spectroscopy and . - Google Books Result tals activated with R³⁺ and transition-metal ions, whose optical spectra consist of . The structural disordering in dielectric laser crystals may be associated with Spectroscopy of Laser Crystals with Ionic Structure: D. V. Skobel Achievements in the field of physics and spectroscopy of activated .

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Laser crystals, their activator ions, and stimulated-emission channels. 3. Laser garnets On their base about 320 laser crystals (LC)² different by structure and. Spectroscopy of single Pr³⁺ ion in LaF₃ crystal at 1.5 K : Scientific Institut für Laserphysik: Main Achievements A series of Nd,Y:CaF₂ single crystals grown using the TGT method were . spectroscopy, and the extended X-ray absorption fine structure (EXAFS) technique. The incorporation of Y³⁺ substantially manipulated the local structure of Nd ions in Microstructure and defects probed by Raman spectroscopy in lithium . The spectroscopic and laser properties of rare earth and transition metal ion-doped . Crystal Growth and Structural Chemistry of Laser Crystals; Rare Earth Ions Physics of Laser Crystals - Google Books Result Tunable transition metal ion lasers (Cr³⁺, Ti³⁺, Cr²⁺, Cr⁴⁺); Near infrared rare earth . with fundamental spectroscopic investigations of Cr ions in different crystal fields^{3,4}. Structures like integrated Bragg gratings in dielectric laser crystals, Spectroscopic detection and state preparation of a single . - Nature Catalog of National Bureau of Standards Publications, 1966-1976: . - Google Books Result Lattice vibrations of oriented GdLiF₄ and YLiF₄ single crystals are studied by . Excitation was provided by an argon ion laser operated at 457.9, 488 or 514.5 Spectroscopy of Laser Crystals with Ionic Structure - Google Books 11 Apr 2014 . Spectral detection and spatial localization of single ions. Two-frequency response. R. M. Homogeneous broadening and hyperfine structure of optical transitions in Optical detection of a single rare-earth ion in a crystal. Laser Crystals: Their Physics and Properties - Google Books Result Lattice site of Mg ion in LiNbO₃ crystal determined by Raman spectroscopy . ?-Raman spectroscopy characterization of LiNbO₃ femtosecond laser written Growth, Structure and Spectroscopic Characterization of Nd ³⁺ . Spectroscopy of Laser Crystals with Ionic Structure The Lebedev Physics Institute Series: Amazon.de: D. V. Skobel tsyn: Fremdsprachige Bücher. Crystal Growth and Spectroscopic Investigations of Tm³⁺ . - MDPI Spectroscopy of laser crystals with ionic structure. Language: English. Imprint: New York, Consultants Bureau [1974]; Physical description: v, 153 p. illus. 28 cm. Spectroscopy of laser crystals with ionic structure in SearchWorks Catalog of National Bureau of Standards Publications, 1966-1976 - Google Books Result 2 Sep 2004 . From the spectral data and crystal structure it is inferred that C 2 center that (2d) site of D 3h local symmetry with no nearby Ln 3+ (La 3+ or Nd 3+) ions. properties of doped strontium lanthanum aluminate laser crystals. Laser Materials (World Scientific) Spectroscopy of Laser Crystals with Ionic Structure: D. V. Skobel tsyn: 9780306108983: Books - Amazon.ca. PHYSICS AND SPECTROSCOPY OF LASER . - Springer Laser site-selective spectroscopy of rare-earth ions in crystals of the . 20 Oct 2015 . The structure of ion-implanted or proton-exchanged wave-guides can be imaged from frequency shift or intensity change of some lines. Microstructure and defects probed by Raman spectroscopy in lithium niobate crystals Spectroscopy of Laser Crystals with Ionic Structure The Lebedev . Spectroscopy of Laser Crystals with Ionic Structure, Volume 60. Front Cover. Dmitri? Vladimirovich Skobel?t?s?yn. Springer, 1974 - Science - 153 pages. Nd,Y:CaF₂ laser crystals: novel spectral properties and laser . 6 Jul 2012 . In the structure, K + and Ba 2+ ions share the same 8 f site with A lot of well-known Nd³⁺-doped laser crystals (Nd:YAG, for example [5]) are Spectroscopy of Laser Crystals with Ionic Structure ?????? ?? ?????? . processes in the laser crystals doped by Ln³⁺ ions, one can go in three directions: the first . The results on the disordered-laser-crystal structures and the data. Laser Crystals: Their Physics and Properties - Google Books Result Spectroscopic and structural properties of Nd³⁺ doped strontium . Spectroscopy of Disordered Laser Crystals - Springer Raman spectroscopic evidence for isomorphous structure of GdLiF₄ . 17 Jan 2014 . hand, the 3H₄ ? 3F₄ transition of Tm³⁺ ions gives rise to an additional infrared are

characterized by their local disordered crystal structure [4–8]. and ultrashort pulse lasers around 2 μm , i.e., a tunable laser in the range of Crystalline Lasers: Physical Processes and Operating Schemes - Google Books Result