



LIST OF PAPERS: 2001

1. V. Lupei, A. Lupei, N. Pavel, T. Taira, A. Ikesue, "Comparative investigation of spectroscopic and laser emission characteristics under direct 885-nm pump of concentrated Nd:YAG ceramics and crystals," *Appl. Phys. B* **73**, 757-762 (2001).
2. V. Lupei, A. Lupei, N. Pavel, I. Shoji, T. Taira, A. Ikesue, "Laser emission under thermally-activated resonant pump in concentrated Nd:YAG ceramics," *Appl. Phys. Lett.* **79**, 590-592 (2001).
3. V. Lupei, A. Lupei, S. Georgescu, T. Taira, Y. Sato, A. Ikesue, "The effect of Nd concentration on the spectroscopic and emission decay properties of highly-doped Nd:YAGceramics," *Phys. Rev. B* **64**, 092102 (2001).
4. E. Antic-Fidancev, J. Holsa, M. Lastusaari, A. Lupei, "Dopant-host relationships in RE³⁺ doped RE oxides and garnets," *Phys. Rev. B* **64**,195108 (2001).
5. V. Lupei, N. Pavel, T. Taira, "Laser emission in highly doped Nd:YAG crystals under ⁴F_{5/2} and ⁴F_{3/2} pumping," *Opt. Lett.* **26**, 178-180 (2001).
6. V. Lupei, "Selfquenching of Nd³⁺ emission in laser garnet crystals," *Opt. Mat.* **16**, 137-152 (2001).
7. A. Lupei, V. Lupei, L. Gheorghe, L. Rogobete, E. Osiac, A. Petraru, "The nature of nonequivalent Nd³⁺ centers in CNGG and CLNGG," *Opt. Mat.* **16**, 403-411 (2001).
8. A. Lupei, "Optical phonons effects on RE³⁺ lineshapes in YAG," *Opt. Mat.* **16**, 153-162 (2001).
9. S. Georgescu, V. Lupei, A. Petraru, C. Hapenciuc, C. Florea, C. Naud, C. Porte," Excited-state-absorption in low concentrated Er:YAG crystals for pulsed and cw pumping," *J. Lumin.* **93**, 281-292 (2001).
10. A. Lupei, G. Aka, E. Antic-Fidancev , B. Viana, D. Vivien, "Phonon effects in Yb and Nd spectra of GdCOB," *J. Lumin.* **94-95**, 691-694 (2001).
11. V. Lupei, "Laser Materials: Relationship Between Materials and Laser Properties," *Encyclopedia of Materials: Science and Technology*, Pergamon, Elsevier, Amsterdam, New York, 4416-4423 (2001).
12. V. Lupei, T. Taira, A. Lupei, N. Pavel, I. Shoji, A. Ikesue, "Spectroscopy and laser emission under hot band resonant pump in highly-doped Nd:YAG ceramics," *Opt. Commun.* **195**, 225-232 (2001).
13. N. Pavel, J. Saikawa, T. Taira, "Diode end-pumped passively Q-switched Nd:YAG laser intra-cavity frequency doubled by LBO crystal," *Opt. Commun.* **195**, 233-240 (2001).
14. N. Pavel, J. Saikawa, T. Taira, "Radial-Pumped Microchip High-Power Composite Yb:YAG Laser: Design and Power Characteristics," *Jap. J. Appl. Phys.* **40** (Part 1), 146-152 (2001).
15. N. Pavel, J. Saikawa, S. Kurimura, T. Taira, "High Average Power Diode End-Pumped Composite Nd:YAG Laser Passively Q-switched by Cr⁴⁺:YAG Saturable Absorber," *Jap. J. Appl. Phys.* **40** (3A), 1253-1259 (2001).