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LABORATORY OF SOLID-STATE QUANTUM ELECTRONICS

LIST OF PAPERS: 2002

1. V. Lupei, A. Lupei, S. Georgescu, B. Diaconescu, T. Taira, Y. Sato, S. Kurimura, A. Ikesue, "High resolution spectroscopy and emission decay in concentrated Nd:YAG ceramics," J. Opt. Soc. Am. B, **19**, 360-368 (2002).
2. V. Lupei, N. Pavel, T. Taira, "1064-nm laser emission of highly doped Nd:YAG active components under 885-nm diode laser pumping," Appl. Phys. Lett. **80**, 4309-4311 (2002).
3. V. Lupei, N. Pavel, T. Taira, "Highly-efficient continuous-wave 946 nm laser emission under direct 885 nm pumping," Appl. Phys. Lett. **81**, 2677-2679 (2002).
4. V. Lupei, G. Aka, D. Vivien, "Enhanced fundamental and self-frequency-doubling laser emission efficiency in $^4F_{3/2}$ directly-pumped Nd-activated nonlinear crystals: case of GdCOB," Appl. Phys. Lett. **81,** 811-813 (2002).
5. E. Osiac, I. Sokólska, S. Kück, "Evaluation of the upconversion mechanisms in Ho^{3+} doped crystals: Experiment and theoretical modeling," Phys. Rev B **65**, 235119 (2002).
6. A. Lupei, E. Antic-Fidancev, G. Aka, D. Vivien, P. Ashehoung, Ph. Goldner, F. Pelle, L. Gheorghe, "Spectroscopic and crystal field studies of Nd in $GdCa_4O(BO_3)_3$ and $YCa_4O(BO_3)_3$", Phys. Rev. B **65** 224518 (2002).
7. Shoji, Y. Sato, S. Kurimura, V. Lupei, T. Taira, A. Ikesue, K. Yoshida, "Thermal-birefringence-induced depolarization in Nd:YAG ceramics," Opt. Lett. **27**, 234-236 (2002).
8. T. Dascalu, T. Taira, N. Pavel, "100-W quasi-continuously-wave diode radial pumped microchip composite Yb:YAG laser," Opt. Lett. **27**, 1791-1793 (2002).
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10. V. Lupei, N. Pavel, T. Taira, "Efficient laser emission in concentrated Nd laser materials under pumping into the emitting level," IEEE J. of Quantum Electron. **38**, 240-245 (2002).
11. V. Lupei, N. Pavel, T. Taira, "Highly efficient laser emission in concentrated Nd:YVO_4 components under direct pumping into the emitting level," Opt. Commun. **201**, 431-435 (2002).
12. V. Lupei, G. Aka, D. Vivien, "Quasi-three-level 946-nm emission of Nd:YAG under direct pumping at 885 nm into the emitting level," Opt. Commun. **204**, 399-405 (2002).
13. V. Lupei, "RE^{3+} emission in garnets: Multisites, energy transfer and quantum efficiency," Opt. Mat. **19**, 95-107 (2002).
14. A. Lupei, G. Aka, E. Antic-Fidancev, B. Viana , D. Vivien, P. Ashehoung, "Selective excitation of Yb^{3+} in GdCOB and YCOB," J. Phys. Condens. Matter **14**, 1107 (2002).
15. E. Osiac, "Green upconverted emission by infrared pump in Ho^{3+} doped $YAlO_3$", J. of Alloys and Compounds **341**, 263-266 (2002).
16. T. Dascalu, T. Taira, N. Pavel, "Diode edge-pumped microchip composite Yb:YAG laser," Jpn. J. Appl. Phys. (Express Letters) **41** (part 2, no. 6A), L606-L608 (2002).
17. L. E. Dinca, L. Gheorghe, A. Lupei, D. Pantelica, N. Scintee, "Growth, RBS-ERDA characterizations and modeling in Nd^{3+}-doped calcium-lithium-niobium-gallium garnet (CLNGG:Nd) crystal," Nuclear Instruments & Methods in Physics Section A **486**(1-2), 93-97 (2002).