



## LIST OF PAPERS: 2004

1. G. Aka, D. Vivien, V. Lupei, "Site-selective 900 nm quasi-three-level emission in Nd-doped strontium lanthanum aluminate," *Appl. Phys. Lett.* **85** 2685-2687 (2004).
2. O. Toma, S. Georgescu, "Dynamics of an upconversion Er: YAG laser with reabsorption losses," *J. Opt. Soc. Am. B* **21** (9), 1630-1637 (2004).
3. K. Mizuuchi, A. Morikawa, T. Sugita, K. Yamamoto, N. Pavel, T. Taira, "Continuous-wave ultraviolet generation at 354 nm in a periodically poled MgO:LiNbO<sub>3</sub> by frequency tripling of a diode end-pumped Nd:GdVO<sub>4</sub> microlaser," *Appl. Phys. Lett.* **85** (18), 3959-3961 (2004).
4. A. Lupei, V. Lupei, C. Gheorghe, D. Vivien, G. Aka, P. Aschehoug, "Spectroscopic and structural properties of Nd<sup>3+</sup> doped Strontium Lanthanum Aluminate laser crystals," *J. Appl. Phys.* **96** (6), 3057-3064 (2004).
5. V. Lupei, G. Aka, D. Vivien, "Spectroscopic bases for efficiency enhancement and power scaling of self-frequency. Multiplication and self-sum-frequency mixing emission in Nd-doped non-linear crystals," *J. Opt. Soc. Am. B* **21** (9), 1620-1629 (2004).
6. O. Toma, S. Georgescu, "Dynamics of a green upconversion Er:YAG laser with reabsorption losses," *J. Opt. Soc. B* **21** (9), 1630-1637 (2004).
7. N. Pavel, I. Shoji, T. Taira, K. Mizuuchi, A. Morikawa, T. Sugita, K. Yamamoto, "Room temperature, continuous wave 1-W green power by single-pass frequency-doubling in a bulk periodically poled MgO:LiNbO<sub>3</sub>," *Opt. Lett.* **29** (8), 830-832 (2004).
8. A. Richter, E. Heumann, E. Osiac, "Diode pumping of a continuous-wave Pr<sup>3+</sup>-doped LiYF<sub>4</sub> laser," *Opt. Lett.* **29** (22), 2638-2640 (2004).
9. H. Scheife, G. Huber, E. Heumann, E. Osiac, "Advances in up-conversion lasers based on Er<sup>3+</sup> and Pr<sup>3+</sup>," *Opt. Mat.* **26** (4), 365-374 (2004).
10. N. Pavel, I. Shoji, T. Taira, "Continuous-wave high-power Nd:YAG-KNbO<sub>3</sub> laser at 473 nm," *Opt. & Laser Techn.* **36** (7), 581-585 (2004).
11. K. Mizuuchi, A. Morikawa, T. Sugita, K. Yamamoto, N. Pavel, T. Taira, "Continuous-wave deep blue generation in a periodically poled MgO:LiNbO<sub>3</sub> crystal by single-pass frequency doubling of a 912-nm Nd:GdVO<sub>4</sub> laser," *Jpn. J. Appl. Phys. (Express Letters)*, **43** (10A), L1293-L1295 (2004).
12. V. Lupei, A. Lupei, A. Ikesue, "Single crystal and transparent ceramic Nd-doped oxide laser materials: A comparative spectroscopic investigation," *J. Alloys and Compounds* **380**, 61-70 (2004).
13. A. Lupei, E. Antic-Fidancev, G. Aka, D. Vivien, "Spectral and structural studies of GdCOB and YCOB crystals," *J. Alloys and Compounds* **380**, 235-240 (2004).
14. E. Antic-Fidancev, A. Lupei, A. Caramanian, and G. Aka, "Spectroscopic study of europium doped RCOB host lattice: evidence of a local perturbation," *J. Alloys and Compounds* **380**, 141-145 (2004).
15. Carmen Tiseanu, Ligia Frunza, Michael Kumke, "Time-resolved photoluminescence analysis of distribution and migration of terbium ions in zeolites X," *Physica B Cond. Matter* **352**, 358-365 (2004).