

## LIST OF PAPERS: 2003

1. S. Georgescu, O. Toma, H. Totia, "Intrinsic limits of the efficiency of erbium 3  $\mu\text{m}$  lasers," *IEEE J. Quantum Electron.* **39**, 722-732 (2003).
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4. E. Osiac, S. Kück, E. Heumann, G. Huber, E. Sani, A. Toncelli, M. Tonelli, "Orange and red upconversion laser pumped by an avalanche mechanism in Pr<sup>3+</sup>, Yb<sup>3+</sup>:BaY<sub>2</sub>F<sub>8</sub>," *Appl. Phys. Lett.* **82**, 22-24 (2003).
5. V. Lupei, N. Pavel, T. Taira, "Basic enhancement of the overall optical efficiency of intracavity frequency-doubling devices for the one-micron continuous-wave Nd:Y<sub>3</sub>Al<sub>5</sub>O<sub>12</sub> laser emission," *Appl. Phys. Lett.* **83** 3653-3655 (2003).
6. M. Iwai, T. Yoshino, S. Yamaguchi, M. Imaeda, N. Pavel, I. Shoji, T. Taira, "High power blue generation from a periodically poled MgO:LiNbO<sub>3</sub> ridge-type waveguide by frequency-doubling of a diode end-pumped Nd:Y<sub>3</sub>Al<sub>5</sub>O<sub>12</sub> laser," *Appl. Phys. Lett.* **83**, 3659-3661 (2003).
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9. Jorma Hölsä, Elisabeth Antic-Fidancev, Mika Lastusaari, Aurelia Lupei, "Local perturbations due to rare earth (R<sup>3+</sup>) doping," *J. Solid State Chem.* **171**, 282-286 (2003).
10. A. Lupei, V. Lupei, T. Taira, Y. Sato, A. Ikesue, C. Gheorghe, "Energy transfer processes of Nd<sup>3+</sup> in Y<sub>2</sub>O<sub>3</sub> ceramic," *Journal of Luminescence* **102-103**, 72-76 (2003).
11. A. Lupei, V. Lupei, "RE<sup>3+</sup> pairs in garnets and sesquioxides," *Opt. Mat.* **24** (1-2), 181-189 (2003).
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13. E. Osiac, S. Kück, E. Heumann, G. Huber, E. Sani, A. Toncelli, M. Tonelli, "Spectroscopic characterisation of the upconversion avalanche mechanism in Pr<sup>3+</sup>, Yb<sup>3+</sup>:BaY<sub>2</sub>F<sub>8</sub>," *Opt. Mat.* **24**, 537-545 (2003).
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