



### LIST OF PAPERS: 2006

1. O. Toma, S. Georgescu, "The influence of pump wavelength on Er:YAG green-emitting laser characteristics," IEEE J. Quantum Electronics **42** (1-2), 192-197 (2006).
2. A. M. Chinie, A. Stefan, S. Georgescu, O. Toma, E. Borca, M. Bercu, "Structural and spectroscopical characterization of RE<sup>3+</sup> (RE= Er, Eu, Tb) doped nanocrystalline YAG produced by a sol-gel method," Journal of Optoelectronics and Advanced Materials **8** (1), 95-98 (2006).
3. A. Lupei, V. Lupei, C. Gheorghe, L. Gheorghe, D. Vivien, G. Aka, E. Antic-Fidancev, "Disorder effects in Nd<sup>3+</sup> doped strontium hexa- aluminate laser crystals," J. Phys.: Condens. Matter **18**, 597-611 (2006).
4. N. Pavel, V. Lupei, T. Taira, "Neodymium concentration dependence of 0.94, 1.06 and 1.34  $\mu\text{m}$  laser emission and of heating effects under 809 and 885-nm diode laser pumping of Nd:YAG," Appl. Phys. B **82**, 599-605 (2006).
5. A. Lupei, V. Lupei, C. Gheorghe, L. Gheorghe, E. Antic-Fidancev, D. Vivien, G. Aka, "Polarization effects of Nd<sup>3+</sup> spectra in Strontium Hexa-Aluminates," Journal of Optoelectronics and Advanced Materials **8**, 86-90 (2006).
6. L. Gheorghe, V. Lupei, A. Lupei, C. Gheorghe, A. Achim, G. Aka, C. Varona, "Growth and characterization of Nd<sup>3+</sup> doped Strontium Hexa-Aluminates Single Crystals," Journal of Optoelectronics and Advanced Materials **8**, 82-85 (2006).
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9. L. Gheorghe, V. Lupei, P. Loiseau, G. Aka, T. Taira, "Second harmonic generation of blue light in nonlinear optical crystals of Gd<sub>1-x</sub>Lu<sub>x</sub>Ca<sub>4</sub>O(BO<sub>3</sub>)<sub>3</sub> and Gd<sub>1-x</sub>Sc<sub>x</sub>Ca<sub>4</sub>O(BO<sub>3</sub>)<sub>3</sub> through non-critical phase matching," J. Opt. Soc. Amer. B **23**, 1630-1634 (2006).
10. L. Gheorghe, P. Loiseau, G. Aka, V. Lupei, "Growth and Type-I noncritical phase-matching second harmonic-generation of Gd<sub>1-x</sub>R<sub>x</sub>Ca<sub>4</sub>O(BO<sub>3</sub>)<sub>3</sub> (R=Sc or Lu) crystals," J. Cryst. Growth **294**, 442-446 (2006).
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