



**PRESENTATIONS AT INTERNATIONAL CONFERENCES  
- 2005 -**

1. A. Lupei, V. Lupei, C. Gheorghe, L. Gheorghe, D. Vivien, G. Aka, "Cationic Distribution and Spectral Properties of Nd<sup>3+</sup> in Hexa-Aluminate Laser Crystals," Advanced Solid-State Photonics Conference, Vienna, Austria, February 2005; paper TuB6.
2. V. Lupei, A. Lupei, A. Ikesue, "Spectroscopic Properties of Nd<sup>3+</sup> and Highly Efficient Nd<sup>3+</sup> to Yb<sup>3+</sup> Energy Transfer in Transparent Sc<sub>2</sub>O<sub>3</sub> Ceramics," Advanced Solid-State Photonics Conference, Vienna, Austria, February 2005; paper MB8.
3. V. Lupei, G. Aka, D. Vivien, "Highly Efficient 900 nm Laser Emission of Nd<sup>3+</sup> in strontium Lanthanum Aluminate," Advanced Solid-State Photonics Conference, Vienna, Austria, Feb. 2005; paper TuB8.
4. V. Lupei, G. Aka, "Enhanced Efficiency of Second Harmonic Generation in GdCOB of the Nd:YVO<sub>4</sub> Laser under Direct <sup>4</sup>F<sub>3/2</sub> Pumping," Advanced Solid-State Photonics Conference, Vienna, Austria, February 2005; paper MF26.
5. C. Verona, P. Loiseau, G. Aka, V. Lupei, B. Ferrand, "900 nm Infrared Laser Emission and Second Harmonic Generation of Nd Doped ASL," Advanced Solid-State Photonics Conference, Vienna, Austria, February 2005; paper MB42.
6. N. Pavel, T. Taira, K. Mizuuchi, A. Morikawa, T. Sugita, K. Yamamoto, "Continuous-wave 456-nm blue light generation in a periodically poled MgO:LiNbO<sub>3</sub> by single-pass frequency doubling of a 912-nm Nd:GdVO<sub>4</sub> laser," Advanced Solid-State Photonics Conf., Vienna, Austria, February 2005; paper MB27.
7. N. Pavel, Y. Sato, T. Taira, Y. Tamaoki, H. Kan, "Generation of 5 W continuous-wave green power at 531 nm based on a frequency-doubled Nd:GdVO<sub>4</sub> laser pumped into the emitting level at 879 nm," Advanced Solid-State Photonics Conference, Vienna, Austria, February 2005; paper MF19.
8. V. Lupei, G. Aka, D. Vivien, "Highly efficient quasi-two-level 901 nm laser emission of Nd<sup>3+</sup> in Strontium Lanthanum Aluminate," 2005 CLEO/QELS Conference, 23-27 May, Baltimore, Maryland, USA; paper JTuC32.
9. N. Pavel, T. Taira, M. Imai, T. Yoshino, and M. Imaeda, "Deep blue generation at 456 nm in a periodically poled MgO:LiNbO<sub>3</sub> ridge-type waveguide by single-pass frequency doubling of a Nd:GdVO<sub>4</sub> micro-laser," 2005 CLEO/QELS Conference, 23-27 May, Baltimore, Maryland, USA; paper CTuC30.
10. V. Lupei, N. Pavel, "Optimized 1064 nm laser emission of Nd:YAG in an extended range of concentrations under 885 nm diode laser pumping," International Conference ICONO/LAT 2005, Sankt Petersburg, Russia May 11-15, 2005.
11. V. Lupei, G. Aka, "Enhancement of frequency doubling of Nd:YVO<sub>4</sub> laser in Gadolinium Calcium Oxoborate," International Conference ICONO/LAT 2005, Sankt Petersburg, Russia May 11-15, 2005.
12. V. Lupei, A. Lupei, A. Ikesue, "Efficient sensitisation of Yb<sup>3+</sup> emission by Nd<sup>3+</sup> in Sc<sub>2</sub>O<sub>3</sub> transparent ceramics," International Conference ICONO/LAT 2005, Sankt Petersburg, Russia May 11-15, 2005.
13. A. Lupei, V. Lupei, C. Gheorghe, L. Gheorghe, G. Aka, D. Vivien, "Spectroscopic bases for optimization of 900 nm Laser Emission of Nd<sup>3+</sup> in Strontium Lanthanum Aluminate," International Conference ICONO/LAT 2005, Sankt Petersburg, Russia May 11-15, 2005.



14. N. Pavel, V. Lupei, T. Taira, "Efficient laser emission at 1.3 micron and thermal effects in Nd:YAG under diode pumping into the  ${}^4F_{3/2}$  emitting level," IQEC/CLEO Pacific-Rim Conference, Tokyo, July 11-15 2005; paper CTh1 1-5.
15. N. Pavel, T. Taira, "High-power multi-pass pumped microchip Nd:GdVO<sub>4</sub> laser," IQEC/CLEO Pacific-Rim Conference, 2005, July 11-15, 2005, Tokyo, Japan; paper CTul3-5.
16. V. Lupei, A. Lupei, A. Ikesue, "High-resolution spectroscopic investigation of ceramic laser materials," First Conference on Advances in Optical Materials, Tucson, USA, 2005; paper OM56.
17. A. Lupei, V. Lupei, C. Gheorghe, L. Gheorghe, D. Vivien, G. Aka, "Polarisation effects of Nd<sup>3+</sup> spectra in strontium hexa-aluminates," First Conference on Advances in Optical Materials, Tucson, USA, 2005.
18. V. Lupei, A. Lupei, C. Gheorghe, L. Gheorghe, G. Aka, D. Vivien, , "Structural properties of Pr-activated strontium aluminate quantum cutting phosphors and laser materials," First Conference on Advances in Optical Materials, Tucson, USA, 2005; paper OM55.
19. V. Lupei, "Energy transfer effects in Pr-activated VUV-VIS quantum cutting phosphors," First Conference on Advances in Optical Materials, Tucson, USA, 2005; paper OM54.
20. L. Gheorghe, P. Loiseau, G. Aka, T. Taira, V. Lupei, "Crystal growth studies of Gd<sub>1-x</sub>Sc<sub>x</sub>Ca<sub>4</sub>O(BO<sub>3</sub>)<sub>3</sub> (GdScCOB) and Gd<sub>1-x</sub>Lu<sub>x</sub>Ca<sub>4</sub>O(BO<sub>3</sub>)<sub>3</sub> (GdLuCOB) as frequency converter in SHG non critical phase matching configurations," The 3rd Asian Conference on Crystal Growth and Crystal Technology, Beijing, October 2005.
21. 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," 6th International Balkan Workshop on Applied Physics, Constanta, Romania, 2005; paper S.P.22.
22. 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," 6th International Balkan Workshop on Applied Physics, Constanta 2005; paper S.P.35.
23. L. Gheorghe, V. Lupei, A. Achim, G. Aka, C. Varona, "Growth and optical properties of GdCa<sub>4</sub>O(BO<sub>3</sub>)<sub>3</sub>:RE crystals (RE= Sc or Lu) as new nonlinear materials," 6th International Balkan Workshop on Applied Physics, Constanta 2005, paper S.P.1.
24. O. Toma, S. Georgescu, "Pump wavelengths for an Er:YAG green-emitting laser," International Conference on Lasers, Applications, and Technologies, Sankt Petersburg, Russia, 2005.
25. N. Pavel, T. Taira, M. Imai, T. Yoshino, M. Imaeda, "Blue generation at 456 nm by single-pass frequency-doubling of a Nd:GdVO<sub>4</sub> micro-laser in a periodically poled MgO:LiNbO<sub>3</sub> ridge-type waveguide," CLEO/Europe-EQEC 2005, 12-17 June, Munich, Germany; paper CA-18-MON.
26. N. Pavel, T. Taira, "Efficient 1.06 and 1.34- $\mu$ m laser emission of highly-doped Nd:YAG under 885-nm diode pumping into the emitting level," CLEO/Europe-EQEC 2005 Conference, 12-17 June, Munich, Germany; paper CA-19-MON.