



**PRESENTATIONS AT INTERNATIONAL CONFERENCES
- 2006 -**

1. C. Varona, P. Loiseau, G. Aka, B. Ferrand, V. Lupei, "450 nm Blue Laser Emission by Frequency Doubling of CW Oscillation of Neodymium Doped Strontium and Lanthanum Aluminate (Nd:ASL)," Advanced Solid-State Photonics Conference, Lake Tahoe, USA, Feb. 2006; paper MD3.
2. L. Gheorghe, V. Lupei, P. Loiseau, G. Aka, T. Taira, "Crystal Growth of $Gd_{1-x}R_xCa_4O(BO_3)_3$ (R=Sc or Lu) for Non-Critical Phase matching (NCPM) Second Harmonic Generation (SHG) at 800 nm," Advanced Solid-State Photonics Conference, Lake Tahoe, USA, Feb. 2006; paper WB2.
3. V. Lupei, A. Lupei, C. Gheorghe, A. Ikesue, "Energy transfer in rare earth-doped Sc_2O_3 ceramic laser materials," 4th International Symposium on Laser, Scintillator and Non Linear Optical Materials, Prague, Czech Republic, 2006; paper Wed-S16.
4. A. Lupei, V. Lupei, C. Gheorghe, L. Gheorghe, D. Vivien, G. Aka, "Structural models for Nd^{3+} centers in hexaaluminates," 4th International Symposium on Laser, Scintillator and Non Linear Optical Materials, Prague, Czech Republic, 2006.
5. V. Lupei, A. Lupei, C. Gheorghe, L. Gheorghe, G. Aka, D. Vivien, "Composition dependence of Pr^{3+} spectral characteristics in strontium lanthanum aluminate crystals," 4th International Symposium on Laser, Scintillator and Non Linear Optical Materials, Prague, Czech Republic, 2006.
6. V. Lupei, A. Lupei, A. Ikesue, "High-Resolution Spectroscopic Properties and Emission Decay of Rare-Earth Doped Transparent Laser Ceramics," 10th Europhysical Conference on Defects in Insulating Materials EURODIM, Milano, Italy, July 2006; paper PTh52.
7. A. Lupei, V. Lupei, C. Gheorghe, L. Gheorghe, G. Aka, D. Vivien, "Crystal field disorder effects in RE^{3+} doped hexaaluminates," 10th Europhysical Conference on Defects in Insulating Materials EURODIM, Milano, Italy, July 2006; paper PTh52.
8. S. Georgescu, A. M. Chinie, A. Stefan, O. Toma, "Spectroscopy of Eu:YAG nanopowders," 10th Europhysical Conference on Defects in Insulating Materials EURODIM, Milano, Italy, July 2006.
9. A. M. Chinie, S. Georgescu, C. Stoicescu, "Synthesis and characterization of Eu^{3+} -doped orthosilicates (Y_2SiO_5) nanocrystalline powders," International Conference on Advanced Laser Technologies, Brasov, Romania, 8-10 September, 2006.
10. V. Lupei, "Selected directions of progress in photonic materials and sources," International Workshop on Advanced Photonic Materials and Devices, Part I, Sibiu, Romania, Aug. 2006.
11. V. Lupei, "High-power scaling of the Nd lasers," International Workshop on Advanced Photonic Materials and Devices, Part I, Sibiu, Romania, Aug. 2006.
12. V. Lupei, "Comparative spectroscopic investigation of rare earth-doped oxide transparent ceramics and single crystals," International Conference on f-Elements, 6th ICFE 06, Wroclaw, Poland, Sept. 2006 (invited lecture).
13. A. Lupei, V. Lupei, C. Gheorghe, A. Ikesue, " RE^{3+} doped Sc_2O_3 ceramics as potential energy transfer driven laser materials," International Conf. on f-Elements, 6th ICFE 06, Wroclaw, Poland, Sept. 2006.
14. V. Lupei, A. Lupei, A. Ikesue, G. Boulon, A. Jouini, "Cooperative absorption and emission in $Yb:Sc_2O_3$ ceramics," International Conference on f-Elements, 6th ICFE 06, Wroclaw, Poland, Sept. 2006.
15. V. Lupei, A. Lupei, C. Gheorghe, A. Ikesue, "Rare earth doped Sc_2O_3 ceramics as potential laser materials," International Conference Inorganic Materials, Ljubljana, Slovenia, Sept. 2006.



16. V. Lupei, A. Lupei, C. Gheorghe, A. Ikesue, "Spectroscopic and Energy Transfer Properties of Rare Earth Doped Sc_2O_3 Transparent Ceramics," *Frontiers in Optics-Laser Science, FiO-LS 06*, Rochester, USA, October 2006; paper 1039.
17. V. Lupei, A. Lupei, C. Gheorghe, G. Boulon, A. Jouini, A. Ikesue, "Single Ion and Cooperative Optical Processes in Yb-Doped Sc_2O_3 Transparent Ceramics," *Frontiers in Optics-Laser Science, FiO-LS 06*, Rochester, USA, October 2006; paper 1032.
18. V. Lupei, N. Pavel, "Concentration Effects and Highly Efficient Laser Emission in Diode Pumped Nd:YAG Crystals," *Frontiers in Optics-Laser Science, FiO-LS 06*, Rochester, USA, October 2006; paper 1046.
19. V. Lupei, A. Lupei, A. Ikesue, "Comparative Spectroscopic, Structural and Distribution Characteristics of Laser Transparent Ceramics and Crystals," *Frontiers in Optics-Laser Science, Frontiers in Optics-Laser Science, FiO-LS 06*, Rochester, USA, October 2006; paper 1018.
20. J. Legendziewicz, M. Guzik, A. Stefan, J. Cybinska, V. Lupei, "Optical behaviour of diluted praseodymium and praseodymium/ytterbium double phosphate," *Symposium on Photonics Technology for FP7 OPERA*, Wroclaw, Poland, October 2006; paper P21.
21. V. Lupei, A. Lupei, A. Ikesue, "Transparent Polycrystalline Ceramic Laser Materials," *International France-Israel Symposium on Advances in Optical and Laser Materials, Photonic Crystals and Nano-Particles*, Jerusalem, Israel, Dec. 2006; *Techn. Digest*, p. 80.
22. A. Lupei, V. Lupei, C. Gheorghe, L. Gheorghe, G. Aka, D. Vivien, "Cationic Disorder Effects in Complex Oxide Laser Materials and Phosphors," *International France-Israel Symposium on Advances in Optical and Laser Materials, Photonic Crystals and Nano-Particles*, Jerusalem, Israel, Dec. 2006; *Techn. Digest*, p. 80.
23. V. Lupei, A. Lupei, A. Ikesue, G. Boulon, A. Jouini, "Cooperative Optical Processes in Yb-Doped Sc_2O_3 Transparent Ceramics," *International France-Israel Symposium on Advances in Optical and Laser Materials, Photonic Crystals and Nano-Particles*, Jerusalem, Israel, Dec. 2006; *Techn. Digest*, p. 104.
24. J. Legendziewicz, M. Guzik, A. Stefan, J. Cybinska, V. Lupei, *International France-Israel Symposium on Advances in Optical and Laser Materials, Photonic Crystals and Nano-Particles*, Jerusalem, Israel, Dec. 2006; *Techn. Digest*, p. 80.
25. A. Richter, E. Heumann, N. Pavel, G. Huber, D. Parisi, A. Toncelli, A. Diening, W. Seelert, "Intracavity frequency-doubling of Praseodymium lasers emitting at 640 nm in continuous wave and Q-switched mode," *2nd EPS-QEOD EuroPhoton Conference*, 10-15 Sept., 2006, Pisa, Italy; paper WeE2.
26. K. Lünstedt, N. Pavel, K. Petermann, G. Huber, "Continuous-wave dual-wavelength emission at 912 nm and 1063 nm in a thin-disk Nd:GdVO₄ crystal," *15th International Laser Physics Workshop, LPHYS '06*, 24-28 July, 2006, Lausanne, Switzerland; paper 4.3.2.
27. A. Richter, E. Heumann, N. Pavel, G. Huber, "Ultraviolet generation by intracavity frequency doubling of a Pr:LiYF₄ laser operating at 640 nm," *2006 CLEO/QELS Conference*, 21-26 May, Long Beach, California, USA; paper CFB1.