



LIST OF PAPERS: 2009

1. C. Tiseanu, V.A. Lórenz-Fonfría, A. Gessner, M.U. Kumke, and B. Gagea, "Comparative luminescence study of terbium-exchanged zeolites silylated with alkoxysilanes," *J. Mater. Sci. Mater. Electron.* **20** (Supplement 1), 312-316 (2009).
2. N. Pavel, T. Dascalu, N. Vasile, and V. Lupei, "Efficient 1.34- μm laser emission of Nd-doped vanadates under in-band pumping with diode lasers," *Laser Phys. Lett.* **6** (1), 38-43 (2009).
3. C. Tiseanu, M.U. Kumke, V.I. Parvulescu, and J. Martens, "Species-related luminescence-structure relationships in europium-exchanged mesoporous material," *J. Appl. Phys.* **105** (6), 063521 (2009).
4. C. Tiseanu, V.I. Parvulescu, M.U. Kumke, S. Dobroiu, A. Gessner, and S. Simon, "Effects of support and ligand on the photoluminescence properties of siliceous grafted europium complexes," *J. Phys. Chem. C* **113** (14), 5784-5791 (2009).
5. V. Lupei, "Ceramic laser materials and the prospect for high power lasers," *Opt. Mat.* **31** (5), 701-706 (2009).
6. V. Lupei, A. Lupei, C. Gheorghe, A. Ikesue, "Efficient sensitization of Yb^{3+} emission by Nd^{3+} in Y_2O_3 transparent ceramics and the prospect for high-energy Yb lasers," *Opt. Lett.* **34**, 2141-2143 (2009).
7. C. Gheorghe, A. Lupei, V. Lupei, and A. Ikesue "Spectroscopic properties of Ho^{3+} doped Sc_2O_3 transparent ceramic for laser materials," *J. Appl. Phys.* **105** (12), 123110 (2009).
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10. N. Pavel, T. Dascalu, G. Salamu, O. Sandu, A. Leca, and V. Lupei, "Q-switched Nd lasers pumped directly into the $^4\text{F}_{3/2}$ emitting level," *Opt. Commun.* **282** (24), 4749-4754 (2009).
11. V. Lupei, A. Lupei, C. Gheorghe, A. Ikesue, and E. Osiaç, "Energy transfer driven infrared emission processes in rare earth doped Sc_2O_3 ceramics," *J. Lumin.* **129** (12), 1862-1865 (2009).
12. A. Lupei, A. Achim, V. Lupei, C. Gheorghe, L. Gheorghe, S. Hau, " RE^{3+} doped SrWO_4 as laser and nonlinear active crystals," *Rom. J. Phys.* **54** (9-10), 919-928 (2009).
13. I. Mateescu, S. Georgescu, B. Iliescu, I. Enculescu, R. Georgescu, C. Oproiu, G. Ghita, "Influence of ionizing radiations (electrons and gamma) on the electrical characteristics of LGS resonators," *Ferroelectrics*, **389**, 25-31 (2009).
14. S. Georgescu, E. Cotoi, A. M. Voiculescu, O. Toma, M. N. Grecu, E. Borca, S. Hodoroagea, "Optical and EPR investigations of the thermal treatment effects on YVO_4 nanocrystals," *Optoelectronics and Advanced Materials - Rapid Communications*, **3** (12), 1383-1387 (2009).
15. S. Georgescu, A. M. Voiculescu, O. Toma, C. Tiseanu, L. Gheorghe, A. Achim, C. Matei, "Eu-doped langasite, langatate and langanite - possible new red phosphors," *Optoelectronics and Advanced Materials - Rapid Communications*, **3** (12), 1379-1382 (2009).