



LIST OF PAPERS: 2013

1. S. Georgescu, A. M. Voiculescu, C. Matei, A. G. Stefan, and O. Toma, "Violet and near-ultraviolet upconversion luminescence in $\text{La}_3\text{Ga}_{5.5}\text{Ta}_{0.5}\text{O}_{14}$ codoped with Er^{3+} and Yb^{3+} ," *Physica B*, **413**, 55-58 (2013).
2. T. Dascalu, G. Salamu, O. Sandu, F. Voicu, and N. Pavel, "Novel laterally pumped by prism laser configuration for compact solid-state lasers," *Laser Phys. Lett.*, **10** (5), 05580 (2013).
3. A. M. Voiculescu, S. Georgescu, C. Matei, A. G. Stefan, L. Gheorghe, A. Achim, and F. Voicu, "Infrared-excited red, green, violet and UV luminescence from langasite crystal doped with erbium and ytterbium," *Rom. J. Phys.*, **58** (1-2), 136-142 (2013).
4. F. Stokker-Cheregi, A. Nedelcea, F.-M. Voicu, D.-M. Marin, R. Birjega, and M. Dinescu, "Structure and morphology of indium nitride thin films grown by plasma assisted PLD: the impact of nitrogen flow and substrate temperature," *Rom. Reports in Physics*, **65** (1), 213-218 (2013).
5. S. Georgescu, A. M. Voiculescu, C. Matei, C. E. Secu, R. F. Negrea, and M. Secu, "Ultraviolet and visible up-conversion luminescence of $\text{Er}^{3+}/\text{Yb}^{3+}$ co-doped CaF_2 nanocrystals in sol-gel derived glass-ceramics," *J. Lumin.*, **143**, 150-156 (2013).
6. O. Toma and S. Georgescu, "Selectively excited Er^{3+} luminescence in calcium lithium niobium gallium garnet," *Rom. J. Phys.*, **58** (3-4), 365-372 (2013).
7. C. Tiseanu, B. Cojocaru, D. Avram, V. I. Parvulescu, A. V. Vela-Gonzalez and M. Sanchez-Dominguez, "Isolated centres versus defect associates in Sm^{3+} doped CeO_2 : A spectroscopic investigation," *J. Phys. D: Appl. Phys.*, **46** (27), 275302 (2013).
8. N. Pavel, G. Salamu, F. Voicu, F. Jipa, M. Zamfirescu, and T. Dascalu, "Efficient laser emission in diode-pumped Nd:YAG buried waveguides realized by direct femtosecond-laser writing," *Laser Phys. Lett.*, **10** (9), 095802 (2013).
9. G. Salamu, F. Voicu, N. Pavel, T. Dascalu, F. Jipa, and M. Zamfirescu, "Laser emission in diode-pumped Nd:YAG single-crystal waveguides realized by direct femtosecond-laser writing technique," *Rom. Reports in Physics*, **65** (3), 943-953 (2013).
10. Y. Wu, C. Dujardin, P. Granger, C. Tiseanu, S. Sandu, V. Kuncser, and V. I. Parvulescu, "Spectroscopic investigation of iron substitution in EuCoO_3 on the catalytic properties in the high-temperature N_2O decomposition," *J. Phys. Chem. C*, **117** (27), 13989-13999 (2013).
11. M. Sarwar, A. M. Madalan, C. Tiseanu, G. Novitchi, C. Maxim, G. Marinescu, D. Luneau, and M. Andruh, "A new synthetic route towards binuclear 3d-4f complexes, using non-compartmental ligands derived from *o*-vanillin. Syntheses, crystal structures magnetic and luminescent properties," *New. J. Chem.*, **37** (8), 2280-2292 (2013).
12. A. Lupei, V. Lupei, and C. Gheorghe, "Thermal shifts of Sm^{3+} lines in YAG and cubic sesquioxide ceramics," *Opt. Mat. Express*, **3** (10), 1641-1646 (2013).
13. A. Lupei, V. Lupei, and C. Gheorghe, "Electronic structure of Sm^{3+} ions in YAG and cubic sesquioxide ceramics," *Opt. Mat.*, **36** (2), 419-424 (2013).
14. G. Seisenbaeva, J.-M. Nedelec, G. Daniel, C. Tiseanu, V. Parvulescu, V. Pol, L. Abrego, and V. Kessler, "Mesoporous anatase TiO_2 nanorods as robust anodes for Li-ion batteries - a detailed insight into formation mechanism," *Chem. Eur. J.*, **19** (51), 17439-17444 (2013).