



LIST OF PAPERS: 2011

1. C. Gheorghe, A. Lupei, V. Lupei, A. Ikesue, and M. Enculescu, "Intensity parameters of Tm^{3+} doped Sc_2O_3 transparent ceramic laser material," *Opt. Mat.* **33** (3), 501-505 (2011).
2. O. Toma and S. Georgescu, "Competition between green and infrared emission in $Er:YLiF_4$ upconversion lasers," *Opt. Commun.* **284** (1), 388-397 (2011).
3. L. Gheorghe, A. Achim, F. Voicu, and G. Aka, "Growth and type-I non critical phase matching second harmonic generation of $Y_{1-x}R_xCa_4O(BO_3)_3$ (R= Sc or Lu) crystals," *Optoelectronics and Advanced Materials - Rapid Communications* **5** (2), 103-105 (2011).
4. C. Gheorghe, A. Lupei, L. Gheorghe, and A. Achim, "Growth and spectroscopic preliminary investigations of Sm^{3+} doped strontium hexa-aluminates single crystals," *Optoelectronics and Advanced Materials - Rapid Communications* **5** (2), 116-118 (2011).
5. N. Pavel, M. Tsunekane, and T. Taira, "Composite, all-ceramics, high-peak power $Nd:YAG/Cr^{4+}:YAG$ monolithic micro-laser with multiple-beam output for engine ignition," *Opt. Express* **19** (10), 9378-9384 (2011).
6. A. Lupei, V. Lupei, C. Gheorghe, and A. Ikesue, "Spectroscopic investigation of Sm^{3+} in YAG ceramic," *Rom. Reports Phys.* **63** (3), 817-822 (2011).
7. A. Lupei, V. Lupei, C. Gheorghe, A. Ikesue, and M. Enculescu, "Spectroscopic characteristics of Dy^{3+} doped $Y_3Al_5O_{12}$ transparent ceramics," *J. Appl. Phys.* **110**, 083120 (2011).
8. C. Tiseanu, V. Parvulescu, M. Boutonnet, B. Cojocar, P.A. Primus, C.M. Teodorescu, C. Solans, M.S. Sanchez Dominguez, "Surface versus volume effects in luminescent ceria nanocrystals synthesized by an oil-in-water microemulsion method," *Phys. Chem. Chem. Phys.* **13** (38), 17135-17145 (2011).
9. G. Marinescu, A.M. Madalan, C. Tiseanu, M. Andruh, "New d(10) heterometallic coordination polymers based on compartmental Schiff-base ligands. Synthesis, structure and luminescence," *Polyhedron* **30** (6), 1070-1075 (2011).
10. T.D. Pasatoiu, C. Tiseanu, A.M. Madalan, B. Jurca, C. Duhayon, J.P. Sutter, M. Andruh, "Study of the Luminescent and Magnetic Properties of a Series of Heterodinuclear $[Zn(II)Ln(III)]$ Complexes," *Inorganic Chemistry* **50** (13), 5879-5889 (2011).
11. O. Toma, L. Gheorghe, and A. M. Vlaicu, "Synthesis and preliminary characterization of Erbium Lithium Niobium Gallium Garnet," *Rom. J. Phys.* **56** (7-8), 928-934 (2011).
12. G. Mogildea, M. Mogildea, I. Ion, O. Sandu, I. Stamatina, "Structural investigation of the graphite oxide and thermal reduced graphite oxide with terahertz spectroscopy," *Optoelectronics and Advanced Materials - Rapid Communications*, **5** (9), 973-976 (2011).
13. S. Georgescu, A. M. Voiculescu, O. Toma, L. Gheorghe, A. Achim, " 5D_0 luminescence in europium-doped langganite," *Optoelectronics and Advanced Materials - Rapid Communications*, **5** (11), 1139-141 (2011).
14. A. M. Voiculescu, S. Georgescu, O. Toma, S. Nastase, R. Birjega, L. Petrescu, I. Enculescu, E. Matei, "Upconversion luminescence of Er, Yb-doped nanolanganite powders synthesized by a citrate sol-gel method", *Optoelectronics and Advanced Materials - Rapid Communications*, **5** (11), 1170-1173 (2011).
15. S. Georgescu, O. Toma, A. M. Voiculescu, "Effects of the thermal treatment on the luminescence of $YVO_4:Er^{3+}$ nanocrystals", *Optoelectronics and Advanced Materials - Rapid Communications*, **5** (11), 1207-1209 (2011).



16. G. Salamu, O. Sandu, F. Voicu, M. Dejanu, D. Popa, S. Parlac, C. Ticos, N. Pavel, and T. Dascalu, "Study of Flame Development in 12% Methane-Air Mixture Ignited by Laser," *Optoelectronics and Advanced Materials - Rapid Communications* **5** (11), 1166-1169 (2011).
17. V. Lupei, "Low-heat solid-state lasers," *Rom. Rep. Phys.* **63**, Supplement, 1236-1253 (2011).
18. C. Tiseanu, V.I. Parvulescu, M. Sanchez - Dominguez, and M. Boutonnet, "Spectrally and temporarily resolved luminescence study of short - range order in nanostructured amorphous ZrO_2 ," *J. Appl. Phys.* **110**, 103521 (2011).
19. R. Gheorghe, C. Tiseanu, and M. Andruh, "Homobinuclear 4f-4f complexes with 2,6- diformyl-4-methyl-phenol: investigation of luminescence properties," *Rev. Roum. Chim.* **56** (4), 439- 445 (2011).
20. S. Georgescu, M. Popescu, F. Sava, A. Velea, and G. Pavelescu, " Eu^{3+} luminescence in As_2S_3 dot network", *Chalcogenide Letters* **8** (12), 737-738 (2011).
21. M. Popescu, A. Velea, I. D. Simandan, F. Sava, A. Lőrinczi, L. Ghervase, G. Pavelescu, I.N. Mihailescu, G. Socol, and S. Georgescu, "Luminescence of arsenic sulphide dots doped with europium, prepared by thermal evaporation and pulsed laser deposition methods", *Chalcogenide Letters* **8** (12), 719-724 (2011).

22. N. Pavel, M. Tsunekane, and T. Taira, "All-Poly-Crystalline Ceramics Nd:YAG/ Cr^{4+} :YAG Monolithic Micro-Lasers with Multiple-Beam Output," Book **Laser Systems for Applications**, ISBN 978-953-307-429-0, Chapter 4, pp. 59-82, December 2011. Book edited by Dr. Krzysztof Jakubczak, Published by InTech, Janeza Trdine 9, 51000 Rijeka, Croatia. (<http://www.intechopen.com/books/show/title/laser-systems-for-applications>)