



LIST OF PAPERS: 2005

1. V. Lupei, A. Lupei, A. Ikesue, "Transparent Nd and (Nd, Yb) doped Sc_2O_3 as potential new laser material," *Appl. Phys. Lett.* **86**, 111118 (2005).
2. V. Lupei, G. Aka, "Enhanced 532-nm emission by frequency-doubling of the one-micron Nd:yttrium vanadate laser in gadolinium calcium oxoborate," *J. Appl. Phys.* **97**, 056104 (2005).
3. S. Georgescu, O. Toma, I. Ivanov, "Upconversion from the $^4I_{13/2}$ and $^4I_{11/2}$ levels in Er:YAG," *J. Lumin.* **114**, 43–52 (2005).
4. M. Popescu, F. Sava, A. Lorinczi, M. Stegarescu, S. Georgescu, I. N. Mihailescu, G. Socol, D. Stanoi, L. Daroczi, A. Kokenyesi, M. Leonovici, D. Wagner, "Preparation and properties of langasite and YAG amorphous films," *Journal of Optoelectronics and Advanced Materials* **7** (2). 963-966 (2005).
5. S. Georgescu, O. Toma, "Er:YAG three-micron laser: performances and limits," *IEEE J. Select. Topics in Quantum Electronics* **11** (3), 682-689 (2005).
6. S. Georgescu, A. M. Chinie, A. Stefan, O. Toma, "Effects of thermal treatment on the luminescence of YAG: Eu nanocrystals synthesized by a nitrate-citrate sol-gel method," *Journal of Optoelectronics and Advanced Materials* **7** (6), 2985-2990 (2005).
7. S. Kück, I. Sokólska, M. Henke, E. Osiac, "Quantum efficiency of (1)S0 and P-3(0.1) levels of Pr^{3+} doped YF_3 ," *Chemical Physics* **310**, 139-144 (2005).
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9. L. Gheorghe, A. Lupei, V. Lupei, C. Gheorghe, G. Aka, D. Vivien, "Czochralski growth and characterization of Neodymium doped Strontium-Lanthanum Aluminate (ASL:Nd) Single Crystals," *Journal of Crystal Growth* **277**, 410-415 (2005).
10. C. Tiseanu, R.K. Mehra, R. Kho, "Optical response of thiosalicylic - capped CdS nanocrystals to terbium ions," *J. Photochem. Photobiol. A: Chemistry* **173** (2), 169-173 (2005).
11. N. Pavel, T. Taira, "High-power continuous-wave intracavity frequency-doubled Nd:GdVO₄-LBO laser under diode pumping into the emitting level," *IEEE J. Sel. Top. Quantum Electron.* **11**, 631-637 (2005).
12. S. Kuck, E. Osiac, I. Sokolska, "Phase sensitive detection of excited-state absorption transitions in Yb^{3+} -codoped Ho^{3+} -doped YLiF_4 ," *J. Opt. Soc. Am. B* **22**, 323-327 (2005).
13. N. Pavel, V. Lupei, T. Taira, "1.34- μm efficient lasing emission in highly-doped Nd:YAG under 885-nm diode pumping," *Opt. Express* **13**, 7948-7953 (2005).
14. K. Rademaker, S. A. Payne, G. Huber, I. Isaenko, E. Osiac, "Optical pump-probe process in Nd^{3+} -doped KPb_2Br_5 , RbPb_2Br_5 , and KPb_2Cl_5 ," *J. Opt. Soc. Amer B* **22**, 2610-2618 (2005).
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16. S. Constantinescu, L. Gheorghe, C. Stoicescu, S. Georgescu, O. Toma, I. Bibicu, "Growth and XRD,optical and Mössbauer investigations of Eu-doped trigonal La-gallosilicate crystals," *Romanian Rep. Phys.* **57** (2) 249-260 (2005).
17. I. Ursu, V. Lupei, "Stimulated emission, solid-state quantum electronics and photonics: relation to composition, structure and size," *Romanian Rep. Phys.* **57**, 820 (2005).
18. T. Taira, M. Tsunekane, T. Dascalu, "Diode edge-pumped microchip composite Yb:YAG Laser," *The Review of Laser Engineering* **33** (4), 228-235 (2005).