



## PRESENTATIONS AT INTERNATIONAL CONFERENCES

- 2012 -

1. G. Salamu, O. Sandu, M. Dejanu, F. Voicu, C. Ticos, D. Popa, S. Parlac, N. Pavel, and T. Dascalu, "Study of combustion process for a methane-air mixture using a microlaser system," International Student Conference on Photonics 2012, SPIE Student Chapter, 8-11 May 2012, Sinaia, Romania; Book of abstracts, ISSN 2284-9750, p. 17; Oral presentation.
2. L. Gheorghe, "Advanced nonlinear optic crystals for high efficiency visible and UV laser sources based on frequency conversion processes," International Student Conference on Photonics 2012, SPIE Student Chapter, 8-11 May 2012, Sinaia, Romania; Book of abstracts, ISSN 2284-9750, p. 27; Invited paper.
3. A. Achim, L. Gheorghe, and F. Voicu, "Second harmonic generation in new nonlinear optical crystals of  $Y_{1-x}R_xCa_4O(BO_3)_3$  (R= Lu, Sc) through non-critical phase matching," International Student Conference on Photonics 2012, SPIE Student Chapter, 8-11 May 2012, Sinaia, Romania; Book of abstracts, ISSN 2284-9750, p. 53; Poster presentation.
4. A. Ionescu, C.A. Brandus, O. Sandu, M.E. Barbanta-Patrascu, L. Tugulea, and T. Dascalu, "THz domain spectroscopy in studying supported lipid membranes," International Student Conference on Photonics 2012, SPIE Student Chapter, 8-11 May 2012, Sinaia, Romania. Book of abstracts, ISSN 2284-9750, p. 65; Poster presentation.
5. F. Voicu, C. Gheorghe, and A. Crisan, "Preparation of  $Nd^{3+}$ :YAG and  $Sm^{3+}$ : $Sc_2O_3$  transparent ceramics," International Student Conference on Photonics 2012, SPIE Student Chapter, 8-11 May 2012, Sinaia, Romania. Book of abstracts, ISSN 2284-9750, p. 71; Poster presentation.
6. N. Pavel and T. Dascalu, "High-peak power passively Q-switched Nd:YAG/ $Cr^{4+}$ :YAG lasers," International Student Conference on Photonics 2012, SPIE Student Chapter, 8-11 May 2012, Sinaia, Romania. Book of abstracts, ISSN 2284-9750, p. 79; Invited presentation.
7. C.M. Ticos, O. Sandu, N. Banu, M.L. Munteanu, and A. Scurtu, "Dusty plasmas: A review of experiments and possible applications," International Student Conference on Photonics 2012, SPIE Student Chapter, 8-11 May 2012, Sinaia, Romania. Book of abstracts, ISSN 2284-9750, p. 89; Invited presentation.
8. N. Pavel, G. Salamu, O. Sandu, A. Ionescu, C. Brandus, F. Voicu, and T. Dascalu, "Efficient, simultaneous dual-wavelength emission at 1.06 and 1.34  $\mu$ m in Nd:GdVO<sub>4</sub> laser crystal," 5th EPS-QEOD EUROPHOTON CONFERENCE, Solid State, Fibre, and Waveguide Coherent Light Sources, Stockholm, Sweden, presentation TuP.11; Poster presentation.
9. V. Lupei, A. Lupei, A. Ikesue, C. Gheorghe, L. Gheorghe, A. Achim, and F.M. Voicu, " $Nd^{3+}$  and  $Yb^{3+}$  in disordered garnet crystals and ceramics," ICFE-8, 8th International Conference on f-Elements, Udine, Italy, August 26-31, 2012, presentation OPT 26P; Poster presentation.
10. A. Lupei, C. Tiseanu, C. Gheorghe, and F. Voicu, "Spectroscopic analysis of  $Sm^{3+}$  in  $C_2$  and  $C_{3i}$  sites of  $Y_2O_3$ ," ICFE-8, 8th International Conference on f-Elements, Udine, Italy, August 26-31, 2012, presentation OPT 23P; Poster presentation.
11. A.M. Voiculescu, S. Georgescu, S. Nastase, O. Toma, C. Matei, and A. Stefan, "Upconversion processes in langasite nanopowders doped with erbium and ytterbium," ICFE-8, 8th International Conference on f-Elements, Udine, Italy, August 26-31, 2012, presentation OPT 32P; Poster presentation.
12. C. Matei, S. Georgescu, D. Berger, S. Nastase, A.M. Voiculescu, and A. Stefan, "Luminescence properties in  $ZrO_2$  nanoparticles doped with Er and Yb," ICFE-8, 8th International Conference on f-Elements, Udine, Italy, August 26-31, 2012, presentation OPT 31P; Poster presentation.



13. A. Ionescu, M. Mernea, C.A. Brandus, M.E. Barbanta-Patrascu, L. Tugulea, D. Mihailescu, and T. Dascalu, "Study of supported phospholipid bilayers by THz-TDS," SPIE Optics + Photonics 2012, San Diego, USA, 12-16 August 2012, presentation 8496-39; Poster presentation.
14. A. Lupei, C. Tiseanu, and **C. Gheorghe**, "Electronic structure and energy transfer processes of  $\text{Sm}^{3+}$  in sesquioxides, 3rd International Conference on the Physics of Optical Materials and Devices (ICOM 2012), 3 - 6 Sept. 2012, Belgrad, Serbia; Book of abstracts, ISBN: 978-86-7306-116-0, pg. 144; Poster presentation.
15. A.M. Voiculescu, S. Georgescu, L. Gheorghe, A. Achim, C. Matei, and A. Stefan, "Infrared-excited red, green, violet and UV luminescence from langasite crystal doped with erbium and ytterbium," ICOM 2012, 3rd International Conference on the Physics of Optical Materials and Devices, Belgrade, Serbia, 3-6 September, 2012, presentation P1.2-31, Book of Abstract ISBN: 978-86-7306-116-0, (pg. 145); Poster presentation.
16. G. Salamu, F. Voicu, F. Jipa, M. Zamfirescu, N. Pavel, "Direct femtosecond laser written waveguides in Nd:YAG," Micro- to Nano-Photonics III, ROMOPTO 2012, 10<sup>th</sup> International Conference on Optics, 3-6 September, Bucharest, Romania, presentation II.P. 1; Poster presentation.
17. G. Salamu, A. Ionescu, C. Brandus, O. Sandu, N. Pavel, T. Dascalu, "Generation of high-peak power 532-nm green pulses from passively Q-switched, all-poly-crystalline Nd:YAG/ $\text{Cr}^{4+}$ :YAG ceramics laser," Micro- to Nano-Photonics III, ROMOPTO 2012, 10<sup>th</sup> International Conference on Optics, 3-6 September, Bucharest, Romania, presentation I.P. 5; Poster presentation.  
Note: This work was awarded with the Certificate of Excellence for First Place Student Presentation (Best Poster SPIE Award) at the ROMOPTO 2012 conference.
18. A. Achim, L. Gheorghe, and F. Voicu, "Second harmonic generation in new nonlinear optical crystals of  $\text{Y}_{1-x}\text{R}_x\text{Ca}_4\text{O}(\text{BO}_3)_3$  (R = Lu, Sc) through non-critical phase matching," the 7th International Conference on Advanced Materials, ROCAM 2012, 28-31 August 2012, Brasov, Romania; Abstract Book, ISSN 1842-3574, p. 19 (2012). Poster presentation.
19. A.M. Voiculescu, S. Georgescu, O. Toma, and S. Nastase, "Properties of luminescence for nanopowders compounds from the langasite family doped with erbium and ytterbium", International Conference on Nanoscience + Technology (ICNT+T 2012) - July 23-27, 2012, Paris, France, presentation PO3-21, Europhysics Conference Abstracts Volume 36D, ISBN No 2-914771-77-0, (pg. 97); Poster presentation.
20. A.M. Voiculescu, S. Georgescu, S. Nastase, C. Matei, A. Stefan, "Synthesis and characterization of langasite nanopowders doped with erbium and ytterbium," the 8th General Conference of Balkan Physical Union, 5-7 July 2012, Constanta, Romania; presentation SP-P11; Poster presentation.
21. S. Georgescu, A. M. Voiculescu, C. Matei, A. Stefan, O. Toma "Upconversion luminescence in  $\text{La}_3\text{Ga}_{5.5}\text{Ta}_{0.5}\text{O}_{14}$  codoped with  $\text{Er}^{3+}$  and  $\text{Yb}^{3+}$ ," International Conference on Optics "Micro- to Nano-Photonics III - ROMOPTO 2012", September 3-6, 2012, Bucharest, Romania, Presentation I.I.6; Oral presentation
22. O. Toma, S. Georgescu, and L. Gheorghe, "Energy levels of  $\text{Er}^{3+}$  and their kinetics in the partially disordered calcium lithium niobium gallium garnet," International Conference on Optics "Micro- to Nano-Photonics III - ROMOPTO 2012", September 3-6, 2012, Bucharest, Romania, presentation I.P.4; Poster presentation.
23. L. Gheorghe, A. Achim, P. Loiseau, and G. Aka, "Advanced NLO crystals for UV light generation," The 7th International Conference on Advanced Materials, ROCAM 2012, 28-31 August 2012, Brasov, Romania; Abstract Book, ISSN 1842-3574, p. 9 (2012); Invited paper.
24. G. Aka, P. Loiseau, and L. Gheorghe, "Challenge of blue-green laser from  $\text{Nd}^4\text{F}_{3/2} \rightarrow ^4\text{I}_{9/2}$  laser transition or Ytterbium doped crystalline hosts: Review of crystal growth and laser performances," The 7th International Conference on Advanced Materials, ROCAM 2012, 28-31 August 2012, Brasov, Romania; Abstract Book, ISSN 1842-3574, p. 8 (2012); Invited paper.



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25. D. Avram, B. Cojocaru, N. Gheorghe, and C. Tiseanu, "Cubic and low symmetry centers in  $\text{Eu}^{3+}$  and  $\text{Sm}^{3+}$  doped  $\text{CeO}_2$  nanoparticles. Effects of dopant concentration and thermal treatment," International Krutyn Summer School 2012, 23-29 September 2012, Krutyn, Polonia; Poster presentation.
26. O. Grigore, M. Mernea, J. Pinte, D. Mihailescu, and T. Dascalu, "Using of THz Radiation in Related Protein Solutions Discrimination," NATO Advanced Research Workshop on Detection of Explosives and CBRN (Using Terahertz), Izmir, Turkey, 3-6 November 2012; Poster presentation.