



**PRESENTATIONS AT INTERNATIONAL CONFERENCES
- 2009 -**

1. T. Dascalu, N. Pavel, and N. Vasile, "High-Temperature Operation of a Diode-Pumped Nd:YAG Laser Passively Q-Switched by Cr⁴⁺:YAG Saturable Absorber," CLEO/IQEC 2009 Conference, Baltimore, Maryland, USA, May 31-June 5, 2009, presentation JThE6.
2. N. Pavel, T. Dascalu, N. Vasile, and V. Lupei, "Efficient Laser Emission of Nd-vanadates on the 1.34- μm ⁴F_{3/2} to ⁴I_{13/2} Transition under Pumping with Diode Lasers Directly into the Emitting Level," CLEO/IQEC 2009 Conference, Baltimore, Maryland, USA, May 31-June 5, 2009, presentation JThE5.
3. V. Lupei, A. Lupei, A. Ikesue, S. Florea, "Spectroscopic properties of Chromium doped Sc₂O₃ ceramics," CLEO-Europe 2009 Conf., June 14-19, 2009, Munich, Germany, presentation CA.P.17.
4. V. Lupei, A. Lupei, L. Gheorghe, C. Gheorghe, A. Achim, "Spectral characteristics of Yb³⁺ in calcium lithium niobium gallium garnets," CLEO-Europe 2009 Conference, June 14-19, 2009, Munich, Germany, presentation CA.P.18.
5. T. Dascalu, N. Pavel, and N. Vasile, "Operation at high temperature of a diode-pumped passively Q-switched Nd:YAG/Cr⁴⁺:YAG laser," CLEO-Europe 2009 Conference, June 14-19, 2009, Munich, Germany, presentation CA.P.33.
6. N. Pavel, T. Dascalu, V. Lupei, and N. Vasile, "Cr⁴⁺:YAG Passive Q-switching of Directly Pumped Nd Lasers," CLEO-Europe 2009 Conference, June 14-19, 2009, Munich, Germany, presentation CA.P.38.
7. V. Lupei, A. Lupei, N. Pavel, and A. Ikesue, "Spectroscopic Bases for Performance Enhancement and Power Scaling of Nd:GSGG Lasers," CLEO-Europe 2009 Conference, June 14-19, 2009, Munich, Germany, presentation CA.P.39.
8. N. Pavel, G. Salamu, O. Sandu, and T. Dascalu, "Passively Q-switched Cr⁴⁺:YAG/Nd-Lasers Pumped Directly into the Emitting Level," 10th International Balkan Workshop on Applied Physics (IBWAP), July 6-8, 2009, Constanta, Romania, presentation S5-P60; Book of Abstracts, ISBN 978-973-614-507-0, pp. 199-200.
9. A. Achim, L. Gheorghe, V. Lupei, A. Lupei, C. Gheorghe, "Growth and characterization of Yb³⁺ doped calcium lithium niobium gallium garnet (CLNGG) single crystals", 10th International Balkan Workshop on Applied Physics (IBWAP), July 6-8, 2009, Constanta, Romania, presentation S1-P62; Book of Abstracts, ISBN 978-973-614-507-0, p. 86.
10. C. Gheorghe, A. Lupei, V. Lupei, L. Gheorghe, S. Hau, "Judd-Ofelt analysis of Nd³⁺ in CLNGG single crystals," 10th International Balkan Workshop on Applied Physics (IBWAP), July 6-8, 2009, Constanta, Romania, presentation S1-P64; Book of Abstracts, ISBN 978-973-614-507-0, p. 87.
11. C. Matei, A. M. Voiculescu, S. Georgescu, E. Cotoi, O. Toma, O. Sandu, "Visible luminescence of Y₂O₃:Er:Yb si YVO₄:Er:Yb nanophosphors excited in infrared," 10th International Balkan Workshop on Applied Physics (IBWAP), July 6-8, 2009, Constanta, Romania, presentation S1-P65; Book of Abstracts, ISBN 978-973-614-507-0, page 88.
12. A. M. Voiculescu, S. Georgescu, E. Cotoi, O. Toma, C. Matei, "Reflectance spectra of YVO₄:Eu nanophosphors", 10th International Balkan Workshop on Applied Physics (IBWAP), July 6-8, 2009, Constanta, Romania, presentation S1-P66; Book of Abstracts, ISBN 978-973-614-507-0, page 88.
13. L. Gheorghe, P. Loiseau, G. Aka, "Second-harmonic generation of 400 nm blue-violet light in Gd_{1-x}R_xCa₄O(BO₃)₃ (R = Lu, Sc) crystals through noncritical phase-matching", 10th International Balkan Workshop on Applied Physics (IBWAP), July 6-8, 2009, Constanta, Romania, paper S1-P63; Book of Abstracts, ISBN 978-973-614-507-0, p. 86.



14. A. Leca, M. Mernea, O. Calborean, D. Mihailescu, M.P. Dinca, and T. Dascalu, "THz Time Domain Spectroscopy of bovine serum albumine," 10th International Balkan Workshop on Applied Physics (IBWAP), July 6-8, 2009, Constanta, Romania, presentation S4-P30; Book of Abstracts, ISBN 978-973-614-507-0, p. 158.
15. N. Pavel, "High-Power Intracavity Frequency-Doubled Nd:GdVO₄ Lasers Pumped Directly into the Emitting Level," Nonlinear Optics (NLO) Conference, July 12-17, 2009, Honolulu, Hawaii, USA, paper JTUB24.
16. C. Tiseanu, V.I. Parvulescu, M. Kumke, Cojocaru B and A. Gessner "Zeolites/polymer nanohybrids with lanthanide's ions: Photoluminescence properties and interaction mechanisms," Frontiers in Polymer Science (Poly 2009), 7-9 June, Mainz, Germany, 2009.
17. C. Tiseanu, M. Kumke, V. A. Lorenz-Fonfria, A. Gessner and Parvulescu "Structure-photoluminescence relationships in europium doped microporous and mesoporous materials," 7th International Conference on f-Elements (ICfE 2009), August 23-27, Köln, Germany, 2009.
18. C Tiseanu, V. I. Parvulescu, B. Cojocaru, A. Voiculescu and S. Georgescu, "Polymer-coated lanthanide's-exchanged zeolites", 10th International Balkan Workshop on Applied Physics (IBWAP), July 6-8, 2009, Constanta, Romania, paper S1-P60; Book of Abstracts, ISBN 978-973-614-507-0, page 85.
19. A. M. Voiculescu, S. Georgescu, L. Gheorghe, A. Achim, O. Toma, C. E. Matei, M. Osiac, "Growth and characterization of the partially disordered La₃Ga_{5.5-x}Al_xTa_{0.5}O₁₄ single crystals doped with Eu³⁺", Romanian Conf. on Advanced Materials, Brasov, Romania, 25-28 August 2009; Abstract Book, ISSN 1842-3574, page 23.
20. 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," Romanian Conference on Advanced Materials, Brasov, Romania, 25-28 August 2009; Abstract Book, ISSN 1842-3574, page 28.
21. C. Tiseanu, A. Voiculescu, C. Matei, S. Dobroiu, S. Georgescu, V. I. Parvulescu, "Optical properties of terbium complexes bound to mesostructured silica," Romanian Conference on Advanced Materials, Brasov, Romania, 25-28 August 2009; Abstract Book, ISSN 1842-3574, page 68.
22. A. Lupei, V. Lupei, A. Ikesue, C. Gheorghe, S. Hau, Spectroscopic investigation of (Nd, Yb) in Y₂O₃ transparent ceramics, Micro- to Nano-Photonics II - ROMOPTO 2009 Conference, August 31 - Sept. 03, 2009, Sibiu, Romania, presentation I.P.1.
23. V. Lupei, "New laser materials and emission processes for non-conventional energy sources- nuclear fusion, solar-hydrogen cycle", Micro- to Nano-Photonics II - ROMOPTO 2009 Conference, August 31 - Sept. 03, 2009, Sibiu, Romania, presentation I.I.1 (invited talk).
24. S. Georgescu, A. M. Voiculescu, E. Cotoi, O. Toma, L. Gheorghe, A. Achim, C. Matei, I. Enculescu, E. Matei, M. Osiac, "Optical and morphologic properties of YVO₄:Eu phosphor", Micro- to Nano-Photonics II - ROMOPTO 2009 Conference, August 31 - Sept. 03, 2009, Sibiu, Romania, presentation III.P.1.
25. A. M. Voiculescu, S. Georgescu, E. Cotoi, O. Toma, C. E. Matei, O. Sandu, "The upconversion luminescence of Y₂O₃:Er:Yb and YVO₄:Er:Yb nanophosphors", Micro- to Nano-Photonics II - ROMOPTO 2009 Conference, August 31 - Sept. 03, 2009, Sibiu, Romania, presentation III.P.2
26. T. Dascalu and N. Pavel, "Progress in Passively Q-switched Lasers," Micro- to Nano-Photonics II - ROMOPTO 2009 Conference, August 31 - Sept. 03, 2009, Sibiu, Romania, paper I.I.2 (invited talk).
27. T. Dascalu, N. Pavel, N. Vasile, A. Leca, G. Salamu, and O. Sandu, "Passively Q-switched Nd:YAG/Cr⁴⁺:YAG Laser Operated at High Temperature," Micro- to Nano-Photonics II - ROMOPTO 2009 Conference, August 31 - Sept. 03, 2009, Sibiu, Romania, presentation I.O.3.



28. N. Pavel, M. Tsunekane, and T. Taira, "Passively Q-switched Nd:YAG/Cr⁴⁺:YAG Laser with a Volume Bragg Grating," Micro- to Nano-Photonics II - ROMOPTO 2009 Conference, August 31 - Sept. 03, 2009, Sibiu, Romania, presentation I.O.1.
29. N. Pavel, M. Tsunekane, and T. Taira, "High Peak-Power Passively Q-switched Nd:YAG/Cr⁴⁺:YAG Lasers," Micro- to Nano-Photonics II - ROMOPTO 2009 Conference, August 31 - Sept. 03, 2009, Sibiu, Romania, presentation I.P.2.
30. L. Gheorghe, A. Achim, P. Loiseau, G. Aka, "New nonlinear Gd_{1-x}R_xCa₄O(BO₃)₃ (R = Lu, Sc) crystals for 400 nm blueviolet light generation by type-I noncritical phase-matching frequency doubling processes Micro- to Nano-Photonics II - ROMOPTO 2009 Conf., August 31 - Sept. 03, 2009, Sibiu, Romania, presentation I.P.3.
31. M. Mogaldea, G. Mogaldea, A. Leca, V. Ghenescu, M. Piso, and D. Apostol, "THz spectral imaging for security applications," Micro- to Nano-Photonics II - ROMOPTO 2009 Conference, August 31 - Sept. 03, 2009, Sibiu, Romania, presentation VI.P.12.
32. G. Mogaldea, M. Mogaldea, A. Leca, V. Ghenescu, M. Piso, and D. Apostol, "Preliminary experiments in THz spectroscopy," Micro- to Nano-Photonics II - ROMOPTO 2009 Conference, August 31 - Sept. 03, 2009, Sibiu, Romania, presentation VI.P.11.
33. M. Mernea, D.F. Mihailescu, O. Calborean, A. Leca, D. Apostol, M. Dinca, and T. Dascalu, "THz vibrational spectra simulated by molecular dynamics," Micro- to Nano-Photonics II - ROMOPTO 2009 Conference, August 31 - Sept. 03, 2009, Sibiu, Romania, presentation V.O.2.
34. T. Dascalu, A. Leca, M. Dinca, D. Apostol, M. Mernea, O. Calborean, and D.F. Mihailescu, "THz time domain system for biomolecules spectroscopy," Micro- to Nano-Photonics II - ROMOPTO 2009 Conference, August 31 - Sept. 03, 2009, Sibiu, Romania, presentation V.O.1.
35. A. Lupei, V. Lupei, A. Ikesue, C. Gheorghe, S. Hau, "Nd→Yb energy transfer in (Nd,Yb):Y₂O₃ transparent ceramics," 5th Intern. Symposium on Laser, Scintillator and Non Linear Optical Materials (ISLNOM-2009), 3-5 September 2009, Pisa, Italy (invited lecture); Book of Abstracts, ISBN 978-88-8492-638-8, p. 53 (2009).
36. V. Lupei, A. Lupei, L. Gheorghe, C. Gheorghe, A. Achim, "Spectroscopic properties of Yb³⁺ in new disordered Ca-Li-Nb-Ga- and Ca-Li-Nb-Ta-Ga-garnet crystals," 5th International Symposium on Laser, Scintillator and Non Linear Optical Materials (ISLNOM-2009), 3-5 Sept. 2009, Pisa, Italy, paper PA13; Book of Abstracts, ISBN 978-88-8492-638-8, p. 25 (2009).
37. C. Gheorghe, A. Lupei, V. Lupei, L. Gheorghe, S. Hau, "Intensity of the f-f transitions of Nd³⁺ in CLNGG single crystals," 5th International Symposium on Laser, Scintillator and Non Linear Optical Materials (ISLNOM-2009), 3-5 Sept. 2009, Pisa, Italy, paper PA12; Book of Abstracts, ISBN 978-88-8492-638-8, p. 24 (2009).
38. L. Gheorghe, P. Loiseau, G. Aka, "400 nm blue-violet light production by type-I noncritical phase-matching second-harmonic generation in Gd_{1-x}R_xCa₄O(BO₃)₃ (R = Lu, Sc): crystal growth and nonlinear characterization", 5th International Symposium on Laser, Scintillator and Non Linear Optical Materials (ISLNOM-2009), 3-5 Sept. 2009, Pisa, Italy; Book of Abstracts, ISBN 978-88-8492-638-8, p. 43 (2009).