

LIST OF PUBLICATIONS

1. PAPERS PUBLISHED IN PEER-REVIEW JOURNALS

72. C. A. Brandus, M. Greculeasa, A. Broasca, F. Voicu, **L. Gheorghe**, and N. Pavel, "Diode-pumped bifunctional Nd:LGSB laser passively Q-switched by a Cr⁴⁺:YAG saturable absorber," *Opt. Mater. Express* **11**(3), 685-694 (2021).
71. R. P. Yavetskiy, A. E. Balabanov, S. V. Parkhomenko, O. S. Kryzhanovska, A. G. Doroshenko, P. V. Mateychenko, A. V. Tolmachev, Jiang Li, Nan Jiang, **L. Gheorghe**, M. Enculescu, "Effect of starting materials and sintering temperature on microstructure and optical properties of Y₂O₃:Yb³⁺ 5 at% transparent ceramics," *J. Adv. Ceram.* **10**(1), 49-61 (2021).
70. G. Stanciu, F. Voicu, C. A. Brandus, C. E. Tihon, S. Hau, C. Gheorghe, G. Croitoru, **L. Gheorghe**, M. Dumitru, "Enhancement of the laser emission efficiency of Yb:Y₂O₃ ceramics via multi-step sintering method fabrication," *Opt. Mater.* **109**, 110411 (2020).
69. A. Broasca, M. Greculeasa, F. Voicu, S. Hau, G. Croitoru, C. Gheorghe, N. Pavel, **L. Gheorghe**, "Efficient near-infrared laser emission and nonlinear optical properties of a newly developed Yb:LYSB laser crystal," *J. Alloys & Comp.* **844**, 156143 (2020).
68. M. Greculeasa, A. Broasca, F. Voicu, S. Hau, G. Croitoru, G. Stanciu, C. Gheorghe, N. Pavel, **L. Gheorghe**, "Bifunctional La_xNd_yGd_zSc_{4-x-y-z}(BO₃)₄ crystal: Czochralski growth, linear and nonlinear optical properties, and near-infrared laser emission performances," *Opt. & Laser Techn.* **131**, 106433 (2020).
67. **L. Gheorghe**, A. Broasca, M. Greculeasa, F. Voicu, G. Stanciu, S. Hau, G. Croitoru, C. A. Brandus, C. Gheorghe, F. Khaled, P. Loiseau, G. Aka, "Czochralski-grown La_xGd_yR_zSc_{4-x-y-z}(BO₃)₄ (R = Yb, Nd) crystals - A review of recent developments," *Opt. Mat. X* **7**, 100052 (2020).
66. A. G. Doroshenko, R. P. Yavetskiy, S. V. Parkhomenko, I. O. Vorona, O. S. Kryzhanovska, P. V. Mateychenko, A. V. Tolmachev, E. A. Vovk, V. A. Bovda, G. Croitoru, **L. Gheorghe**, "Effect of the sintering temperature on the microstructure and optical properties of YAG:Cr,Mg ceramics," *Opt. Mater.* **98**, 109505 (2019).
65. C. A. Brandus, S. Hau, A. Broasca, M. Greculeasa, F. M Voicu, C. Gheorghe, **L. Gheorghe**, and T. Dascalu, "Efficient 1 μm Laser Emission of Czochralski-Grown Nd:LGSB Single Crystal," *Materials* **12**(12), 2005 (2019).
64. **L. Gheorghe**, M. Greculeasa, A. Broasca, F. Voicu, G. Stanciu, K. N. Belikov, E. Yu. Bryleva, and O. Gaiduk, "Incongruent Melting La_xY_ySc_{4-x-y}(BO₃)₄: LYSB Nonlinear Optical Crystal Grown by the Czochralski Method," *ACS Appl. Mat. Interfaces*, **11**(23), 20987-20994 (2019).
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56. C. Gheorghe, S. Hau, **L. Gheorghe**, F. Voicu, M. Greculeasa, A. Achim, M. Enculescu, "Optical properties of Sm³⁺ doped Ca₃(Nb,Ga)₅O₁₂ and Ca₃(Li,Nb,Ga)₅O₁₂ single crystals," *J. Lumin.* **186**, 175-182 (2017).
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51. C. Gheorghe, A. Lupei, S. Hău, F. Voicu, **L. Gheorghe**, A. M. Vlaicu, "Compositional dependence of optical properties of Sm³⁺-doped Y₃Sc_xAl_{5-x}O₁₂ polycrystalline ceramics," *J. Alloys Compd.* **683**, 547-553 (2016).
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45. O. Toma, **L. Gheorghe**, and R. Birjega, "Solubility limits of erbium in partially disordered crystals langanite and langatate," *Rom. J. Phys.* **57** (9-10), 1375-1381 (2012).
44. V. Lupei, A. Lupei, A. Ikesue, C. Gheorghe, **L. Gheorghe**, and A. Achim, "Crystal field disorder effects in the optical spectra of Nd³⁺ and Yb³⁺-doped CLNGG laser crystals and ceramics," *J. Appl. Phys.* **112** (6), 063110 (2012).
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29. **L. Gheorghe**, P. Loiseau, G. Aka, "Four hundred nanometer blue-violet light production by type-I noncritical phase-matching second-harmonic generation in $\text{Gd}_{1-x}\text{R}_x\text{Ca}_4\text{O}(\text{BO}_3)_3$ (R = Lu, Sc): Crystal growth and nonlinear characterization," *Opt. Mat.* **32** (10), 1283-1285 (2010).
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 1. **L. Gheorghe**, M. Petrache, V. Lupei, "Preparation, growth, and characterisation of Nd^{3+} - doped calcium lithium niobium gallium garnet (Nd^{3+} : CLNGG) single crystals," *J. Cryst. Growth* **220** (1-2), 121-125 (2000).

2. PROCEEDINGS OF INTERNATIONAL CONFERENCES

(Presentations at International Meetings published in extended version)

19. I. O. Vorona, R. P. Yavetskiy, A. G. Doroshenko, S. V. Parkhomenko, A. V. Tolmachev, **L. Gheorghe**, M. Greculeasa, C. Gheorghe, S. Hau, C. Brandus, and G. Croitoru, "Nd³⁺:YAG Ceramic Materials with Efficient Laser Emission under Diode-Laser Pumping," in Laser Ignition Conference 2017, OSA Technical Digest (online) (Optical Society of America, 2017), paper LWA5.4 (<https://doi.org/10.1364/LIC.2017.LWA5.4>).
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17. C. A. Brandus, **L. Gheorghe**, and T. Dascalu, "Infrared laser emission in a compact CW and quasi-CW diode pumped Nd³⁺:GdLuCOB laser," Conference Proc. IEEE, Advanced Optoelectronics and Lasers (CAOL), 2013 International Conference on, 9 - 13 Sept. 2013, Sudak, Ukraine; pages 102-103, ISSN: 2160-1518, ISBN: 978-1-4799-0016-9.
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