

LIST OF PUBLICATIONS

1. PAPERS PUBLISHED IN PEER-REVIEW JOURNALS

79. A. Broasca, M. Greculeasa, F. Voicu, S. Hau, C. Gheorghe, G. Croitoru, N. Pavel, G. Stanciu, A. Petris, P. Gheorghe, F. Albota, A. Serban, **L. Gheorghe**, "LGYSB:Nd - high-performance lasing in the near-infrared region," *J. Am. Chem. Soc.* **146**(3), 2196-2207 (2024).
78. A. Broasca, M. Greculeasa, F. Voicu, C. Gheorghe and **L. Gheorghe**, "Pure and Yb-Doped $\text{La}_x\text{Y}_z\text{Sc}_{4-x-y}(\text{BO}_3)_4$ Crystals: A Review of Recent Advances," *Crystals* **13**(2), 169 (2023).
77. C. Gheorghe, S. Hau, **L. Gheorghe**, F. Voicu, M. Greculeasa, A. Broasca, and G. Stanciu, " RE^{3+} -Doped $\text{Ca}_3(\text{Nb},\text{Ga})_5\text{O}_{12}$ and $\text{Ca}_3(\text{Li},\text{Nb},\text{Ga})_5\text{O}_{12}$ Crystals ($\text{RE} = \text{Sm, Dy, and Pr}$): A Review of Current Achievements," *Materials* **16**(1), 269 (2023).
76. S. Hau, G. Stanciu, D. Avram, **L. Gheorghe**, C. Gheorghe, "Energy transfer and luminescent properties of Tb^{3+} and $(\text{Tb}^{3+}, \text{Yb}^{3+})$ doped CNGG phosphors," *J. Rare Earths* **40**(9), 1445-1453 (2022).
75. C. Gheorghe, S. Hau, G. Stanciu, D. Avram, A. Broasca, **L. Gheorghe**, "Novel optical temperature sensors based on the emission of the Pr^{3+} ions doped $\text{Ca}_3(\text{M},\text{Ga})_5\text{O}_{12}$ ($\text{M}^{5+} = \text{Nb, Ta}$) garnet phosphors," *J. Alloys & Compds.* **922**, 166178 (2022).
74. A. Broasca, M. Greculeasa, F. Voicu, G. Stanciu, S. Hau, C. Gheorghe, **L. Gheorghe**, "Pr:LGSB as a new nonlinear optical crystal: Czochralski growth and optical characterization," *J. Alloys & Comp.* **908**, 164633 (2022).
73. A. Broasca, M. Greculeasa, F. Voicu, G. Stanciu, S. Hau, C. Gheorghe, C. A. Brandus, N. Pavel, M. Enculescu, **L. Gheorghe**, "Growth and characterization of 3.5 at.% Nd:LGSB bifunctional crystal," *Opt. Mat.* **123**, 111832 (2022).
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 $\text{Cr}^{4+}:\text{YAG}$ 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 $\text{Y}_2\text{O}_3:\text{Yb}^{3+}$ 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 $\text{Yb}:\text{Y}_2\text{O}_3$ 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 $\text{La}_x\text{Nd}_y\text{Gd}_z\text{Sc}_{4-x-y-z}(\text{BO}_3)_4$ 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 $\text{La}_x\text{Gd}_y\text{R}_z\text{Sc}_{4-x-y-z}(\text{BO}_3)_4$ ($\text{R} = \text{Yb, Nd}$) crystals - A review of recent developments," *Opt. Mat. X* **7**, 100052 (2020).
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1. **L. Gheorghe**, M. Petrache, V. Lupei, "Preparation, growth, and characterisation of Nd³⁺- doped calcium lithium niobium gallium garnet (Nd³⁺: 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>).
18. **L. Gheorghe**, A. Achim, F. Voicu, and G. Stanciu, "Advanced NLO Crystals for Efficient Blue Laser Sources Based on SHG Processes," in *Advanced Solid State Lasers*, OSA Technical Digest (online) (Optical Society of America, 2015), paper ATu2A.3, doi: 10.1364/ASSL.2015.ATu2A.3.
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.
16. S. Georgescu, A. M. Voiculescu, E. Cotoi, O. Toma, **L. Gheorghe**, A. Achim, C. Matei, I. Enculescu, E. Matei, and M. Osiac, "Optical and morphologic properties of YVO₄:Eu phosphor," *ROMOPTO 2009: Ninth Conference on Optics: Micro- to Nanophotonics II*, Sibiu, Romania, August 31 - Sept. 03, 2009, Proc. SPIE, vol. **7469**, 74690C - 6 pages (2010).
15. **L. Gheorghe**, A. Achim, P. Loiseau, and G. Aka, "New nonlinear Gd_{1-x}R_xCa₄O(BO₃)₃ (R = Lu, Sc) crystals for 400-nm blue-violet light generation by type-I noncritical phase-matching frequency doubling processes," *ROMOPTO 2009: Ninth Conference on Optics: Micro- to Nanophotonics II*, Sibiu, Romania, August 31 - Sept. 03, 2009, Proc. SPIE, vol. **7469**, 746904 - 6 pages (2010).
14. A. Lupei, A. Achim, V. Lupei, C. Gheorghe, **L. Gheorghe**, S. Florea, "RE³⁺ doped SrWO₄ as laser and nonlinear active crystals," *Proceedings of International Conference "MODERN LASER APPLICATIONS"*, INDLAS, Second Edition 2008, May 20-23, 2008, Bran, Romania; *J. of Optoelectron. & Adv. Mat. (JOAM) - Symposia*, Vol. **1**, No. 4, 666-669 (2009).
13. M. Reynaud, N. Luiselli, **L. Gheorghe**, P. Loiseau, G. Aka C. Larat, E. Lallier, A. Ikesue, Spectroscopic properties and gain cross section of Er, Yb doped Y2O3 transparent ceramic for eye-safe laser, *Conference On Lasers And Electro-Optics And Quantum Electronics And Laser*

Science Conference (CLEO/QELS 2009), VOLS 1-5, 2879-2880, 2009.

12. K. Xu, **L. Gheorghe**, P. Loiseau, G. Aka, J. Lejay, D. Rytz, P. Villeval, A. Maillard, P. Georges, L. Mc Donagh, F. Salin, "Development of new non-linear crystals for the conception of solid laser devices emitting ultraviolet rays, UVX 2008: 9th Conference Of Coherent And Incoherent Sources Uv, Vuv And X; Applications And Recent Developments, Oct. 07-10, 2008 Dourdan, FRANCE, Pages: 93-99, 2008.
11. S. Georgescu, O. Toma, A. Achim, A. M. Chinie, **L. Gheorghe**, and A. Stefan, "Optical studies of the partially disordered crystals langasite ($\text{La}_3\text{Ga}_5\text{SiO}_{14}$) and langatate ($\text{La}_3\text{Ga}_{5.5}\text{Ta}_{0.5}\text{O}_{14}$) doped with Eu^{3+} ," ROMOPTO 2006: Eighth Conference on Optics (V. I. Vlad Editor), Sibiu, Romania, 28-31 August 2006, Proc. SPIE, vol. **6785**, 678509 - 6 pages (2007).
10. **L. Gheorghe**, P. Loiseau, G. Aka, T. Taira, and V. Lupei, "Growth and noncritical phase matching second harmonic generation of $\text{Gd}_{1-x}\text{R}_x\text{Ca}_4\text{O}(\text{BO}_3)_3$ ($\text{R} = \text{Sc}$ or Lu) nonlinear crystals," 2nd Conference on Solid State Lasers and Amplifier, Strasbourg, France, Apr. 05-06, 2006, Proc. SPIE, vol. **6190**, 61900Z - 9 pages (2006).
9. A. Lupei, V. Lupei, C. Gheorghe, **L. Gheorghe**, E. Antic-Vidancev, D. Vivien, G. Aka, "Spectroscopic Bases for Optimisation of 900 nm Laser Emission of Nd^{3+} in Strontium Lanthanum Aluminate", International Conference on Lasers, Applications and Technologies, St Petersburg, Russia, May 11-15, 2005; Proc. SPIE, vol. **6054**, 60540F - 8 pages (2006).
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5. A. Lupei, E. Antic-Fidancev, G. Aka, D. Vivien, **L. Gheorghe**, C. Gheorghe, "Spectral and structural studies of GdCOB and YCOB crystals," 7th Conference on Optics (ROMOPTO 2003) Constanta, Romania, Sept. 08-11, 2003; Proc. SPIE, vol **5581**, 114-122, (2004).
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3. COMMUNICATIONS AT INTERNATIONAL CONFERENCES

126. **L. Gheorghe**, A. Broasca, M. Greculeasa, F. Voicu, C. Gheorghe, S. Hau, G. Stanciu, C. A. Brandus, N. Pavel, "Czochralski-grown LGSB crystals as high-performance NIR laser crystals and SFD crystals in the VIS spectral range," International Conference on Crystal Growth and Epitaxy - ICCGE-20, 30 July - 04 August 2023, Naples, Italy (poster presentation PS 1 - P49).

125. G. Stanciu, F. Voicu, C. A. Brandus, C. E. Tihon, S. Hau, C. Gheorghe, G. Croitoru, **L. Gheorghe**, N. Pavel, "Rare-earths doped Y_2O_3 laser materials," International Conference on Crystal Growth and Epitaxy - ICCGE-20, 30 July - 04 August 2023, Naples, Italy; (poster presentation PS 2 - P30).
124. C. Gheorghe, S. Hau, A. Broasca, M. Greculeasa, F. Voicu, M. Enculescu, **L. Gheorghe**, " $Ca_3(Ta,Ga)_5O_{12}:Pr^{3+}$ as potential laser crystal emitting in the blue and red spectral domains," International Conference on Crystal Growth and Epitaxy - ICCGE-20, 30 July - 04 August 2023, Naples, Italy; (poster presentation PS 3 - P15).
123. A. Broasca, M. Greculeasa, F. Voicu, S. Hau, G. Stanciu, C. Gheorghe, G. Croitoru, N. Pavel, **L. Gheorghe**, "Growth and optical properties of Nd:LYSB as a new laser and nonlinear optical borate crystal," International Conference on Crystal Growth and Epitaxy - ICCGE-20, 30 July - 04 August 2023, Naples, Italy; (oral presentation Optical Crystals 4 - O3).
122. M. Greculeasa, A. Broasca, F. Voicu, G. Stanciu, S. Hau, C. Gheorghe, G. Croitoru, N. Pavel, **L. Gheorghe**, "Development of LYSB and Yb-doped LYSB crystals as new candidates for the next generation of nonlinear optical and/or laser crystals," International Conference on Crystal Growth and Epitaxy - ICCGE-20, 30 July - 04 August 2023, Naples, Italy; (oral presentation Optical Crystals 6 - O4).
121. G. Croitoru, I. Anghel, F.-M. Voicu, M. Greculeasa, A. Broasca, **L.-M. Gheorghe**, N. Pavel, "Buried Depressed-Cladding Waveguides Fabricated in $RE^{3+}:CLNGG$ Laser Crystals using Direct Laser Writing Technique," 2023 Conference on Lasers and Electro-Optics/Europe - European Quantum Electronics Conferences (CLEO®/Europe-EQEC 2023), 26-30 June 2023, presentation CA-P.4 (poster presentation); doi: 10.1109/CLEO/Europe-EQEC57999.2023.10232516.
120. **L. M. Gheorghe**, A. Broasca, M. Greculeasa, F. Voicu, G. Croitoru, S. Hau, C. Gheorghe, N. Pavel, "Yb- and Nd-doped $La_xGd_ySc_{4-x-y}(BO_3)_4$ (LGSB) as new high performance near-infrared laser crystals," The 9th Tiny Integrated Laser and Laser Ignition Conference 2022, 19-21 April 2023, Pacifico Yokohama, Yokohama, Japan, presentation TILA-LICp-01 (poster presentation).
119. G. Stanciu, F. Voicu, C. A. Brandus, C. E. Tihon, S. Hau, C. Gheorghe, G. Croitoru, **L. M. Gheorghe**, N. Pavel, " $RE^{3+}:Y_2O_3$ transparent ceramic media realized via a multi-step sintering method," The 9th Tiny Integrated Laser and Laser Ignition Conference 2022, 19-21 April 2023, Pacifico Yokohama, Yokohama, Japan, presentation TILA-LICp-02 (poster presentation).
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117. **L. Gheorghe**, A. Broasca, M. Greculeasa, F. Voicu, G. Stanciu, S. Hau, C. Gheorghe, "Czochralski growth and characterization of newly developed Pr:LGSB nonlinear optical and laser crystal," 7th European Conference on Crystal Growth - ECCG7, 25-27 July 2022, Paris, France; oral presentation.
116. S. Hau, M. Greculeasa, A. Broasca, F. Voicu, G. Stanciu, D. Avram, M. Enculescu, **L. Gheorghe**, C. Gheorghe, " Pr^{3+} -doped $Ca_3(Ta, Ga)_5O_{12}$ single crystal as potential laser material in the visible range," 7th European Conference on Crystal Growth - ECCG7, 25-27 July 2022, Paris, France; presentation P20.
115. S. Hau, C. Gheorghe, **L. Gheorghe**, F. Voicu, M. Greculeasa, A. Broasca, G. Stanciu, M. Enculescu, "Spectroscopic Characterizations of Pr^{3+} and Dy^{3+} doped Calcium Tantalum Gallium Garnet- $Ca_{2.85}Ta_{1.80}Ga_{3.10}O_{12}$ Single Crystals," 20th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2022), July 12-15, Constanta, Romania; presentation S1-P7.
114. A. Broasca, M. Greculeasa, F. Voicu, G. Stanciu, S. Hau, C. Gheorghe, and **L. Gheorghe**, "Growth and optical properties of the newly developed Pr:LGSB bifunctional crystal," 10th EPS-QEOD EUROPHTON Conference, 28 Aug. - 2 Sept. 2022, Hannover, Germany; presentation TUE-P-1.8
113. M. Greculeasa, A. Broasca, F. Voicu, G. Stanciu, S. Hau, C. Gheorghe, C.A. Brandus, N. Pavel, and **L. Gheorghe**, "Development of Czochralski-grown $La_{0.733}Nd_{0.035}Gd_{0.452}Sc_{2.75}(BO_3)_4$ as a new bifunctional laser and nonlinear crystal," 10th EPS-QEOD EUROPHTON Conference, 28 Aug. - 2 Sept. 2022, Hannover, Germany; presentation TUE-P-1.9.

112. C.-A. Brandus and **L. Gheorghe**, "Exploring $\chi(2)$ nonlinearity for mode-locking of Nd:LGSB laser," International Conference on Laser, Plasma and Radiation - Science and Technology, June 7-10, 2022 Bucharest, Romania; poster presentation P2-07.
111. G. Stanciu, F. Voicu, C. A. Brandus, C. E. Tihon, S. Hau, C. Gheorghe, G. Croitoru, **L. Gheorghe**, N. Pavel, "Fabrication and laser performances of Nd- and Yb-doped $Y_3Al_5O_{12}$ transparent ceramics," International Conference on Laser, Plasma and Radiation - Science and Technology, June 7-10, 2022 Bucharest, Romania; poster presentation P2-06.
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108. S. Hau, C. Gheorghe, **L. Gheorghe**, F. Voicu, M. Greculeasa, A. Brosca, G. Stanciu, D. Avram, M. Enculescu, "Luminescence and optical thermometry of the Pr^{3+} ions doped $Ca_3(M,Ga)_5O_{12}$ (M^{5+} = Nb, Ta) garnet phosphors," International Conference on Laser, Plasma and Radiation - Science and Technology, June 7-10, 2022 Bucharest, Romania; poster presentation P2-01.
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106. A. Broasca, M. Greculeasa, F. Voicu, G. Stanciu, S. Hau, C. Gheorghe, G. Croitoru, N. Pavel, **L. Gheorghe**, "LYSB and Yb-Doped LYSB crystals: Czochralski growth, optical characterization and laser emission performances," OSA Laser Congress Virtual Event, 03 Oct. - 07 Oct. 2021; oral presentation ATh1A.6.
105. M. Greculeasa, A. Broasca, F. Voicu, S. Hau, G. Croitoru, C. Brandus, G. Stanciu, C. Gheorghe, **L. Gheorghe**, "RE-doped LGSB (RE = Nd, Yb) as new high performance near-infrared laser crystals," 2021 Conference on Lasers and Electro-Optics/Europe - European Quantum Electronics Virtual Conferences (CLEO®/Europe-EQEC 2021), 21-25 June 2021, presentation CA-P.7 (poster presentation).
104. G. Stanciu, F. Voicu, C.-A. Brandus, E.-C. Tihon, S. Hau, C. Gheorghe, G. Croitoru, **L. Gheorghe**, "Development of a new sintering technique for fabricating high-quality Nd^{3+} - and Yb^{3+} -doped Y_2O_3 Transparent Ceramics," 2021 Conference on Lasers and Electro-Optics/Europe - European Quantum Electronics Virtual Conferences (CLEO®/Europe-EQEC 2021), 21-25 June 2021, presentation CE-P.4 (poster presentation).
103. C. A. Brandus, M. Greculeasa, A. Broasca, F. Voicu and **L. Gheorghe**, "Self-frequency-doubling Nd:LGSB laser passively Q-switched by Cr^{4+} :YAG saturable absorber," OSA Laser Congress, 13 - 16 Oct. 2020, oral presentation AF2A.6.
102. C. A. Brandus, M. Greculeasa, A. Broasca, F. Voicu, **L. Gheorghe**, "Infrared and self-frequency-doubling emission characteristics of diode-pumped Nd:LGSB laser crystal," 9th EPS-QEOD Europhoton Virtual Conference, 30 August - 4 September 2020; poster presentation Tu-P1.11.
101. A. Broasca, M. Greculeasa, F. Voicu, S. Hau, G. Croitoru, C. Gheorghe, N. Pavel, **L. Gheorghe**, "New Yb:LYSB bifunctional crystal for efficient near-infrared laser emission and self-frequency doubling conversion," 9th EPS-QEOD Europhoton Virtual Conference, 30 August - 4 September 2020; poster presentation Tu-P1.12.
100. G. Stanciu, F. Voicu, C. A. Brandus, C. Tihon, S. Hau, C. Gheorghe, G. Croitoru, **L. Gheorghe**, "Enhancement of the laser emission efficiency of Yb: Y_2O_3 ceramics via multi-step sintering method fabrication," 9th EPS-QEOD Europhoton Virtual Conference, 30 August - 4 September 2020; poster presentation Tu-P1.13.
99. **L. Gheorghe**, M. Greculeasa, A. Broasca, F. Voicu, G. Stanciu, S. Hau, C. Gheorghe, C. Brandus, G. Croitoru, N. Pavel, "Undoped, Yb- and Nd-doped LGSB Czochralski-grown nonlinear and laser crystals," Advanced Solid State Lasers Conference - ASSL 2019, 29 September 2019 - 03 October 2019, Vienna, Austria, presentation AM3A.2 (oral presentation).

98. C. A. Brandus, A. Broasca, M. Greculeasa, **L. Gheorghe**, and T Dascalu, "Ultrashort ps-order Pulse Generation from a SESAM Mode-Locked Czochralski-Grown Nd:LGSB Laser Crystal," OSA Laser Congress, Advanced Solid State Lasers Conference - ASSL 2019, 29 September 2019 - 03 October 2019, Vienna, Austria, presentation JTU3A.45 (poster presentation).
97. A. Broasca, **L. Gheorghe**, M. Greculeasa, F. Voicu, G. Stanciu, S. Hau, C. Gheorghe, G. Croitoru, N. Pavel, "Czochralski growth and characterization of pure and Yb-doped $\text{La}_x\text{Y}_y\text{Sc}_{4-x-y}(\text{BO}_3)_4$ nonlinear and laser crystal," OSA Laser Congress, Advanced Solid State Lasers Conference - ASSL 2019, 29 September 2019 - 03 October 2019, Vienna, Austria, presentation JM5A.40 (poster presentation).
96. **L. Gheorghe**, M. Greculeasa, A. Broasca, F. Voicu, G. Stanciu, S. Hau, C. Gheorghe, " Yb^{3+} -doped $\text{La}_x\text{Y}_y\text{Sc}_{4-x-y}(\text{BO}_3)_4$ as bifunctional laser and nonlinear optical crystal," Excited States of Transitions Elements Conference - ESTE 2019, 08-13 September 2019, Kudowa Zdrój, Poland, presentation O-10 (oral presentation).
95. S. Hau, C. Gheorghe, **L. Gheorghe**, F. Voicu, M. Greculeasa, G. Stanciu, A. Broasca, M. Enculescu, "Optical properties of Pr^{3+} ions doped garnet crystals," Excited States of Transitions Elements Conference - ESTE 2019, 08-13 September 2019, Kudowa Zdrój, Poland (poster presentation).
94. C. A. Brandus, C. Gheorghe, S. Hau, A. Broasca, M. Greculeasa, F. Voicu, **L. Gheorghe**, and N. Pavel, "Highly efficient laser emission from a Novel Nd:LGSB crystal," CLEO Europe - EQEC 2019 Conference, 23-27 June 2019, München, Germany, presentation CA-P.44 (poster presentation).
93. M. Porębski, M. Kowalczyk, **L. Gheorghe**, M. Greculeasa, A. Broasca, F. Voicu, and J. Sotor, "Passively mode-locked self-frequency doubling Yb:LGBS laser," CLEO Europe - EQEC 2019 Conference, 23-27 June 2019, München, Germany, presentation CA-P.23 (poster presentation).
92. **L. Gheorghe**, M. Greculeasa, A. Broasca, F. Voicu, G. Stanciu, S. Hau, C. Gheorghe, G. Croitoru, and N. Pavel, "Pure, Yb- and Nd-doped $\text{La}_x\text{Gd}_y\text{Sc}_{4-x-y}(\text{BO}_3)_4$ Czochralski-grown nonlinear optical and laser crystals," TIM 19 Physics Conference, 29 - 31 May 2019, Timisoara, Romania, presentation CM-I02 (invited presentation).
91. A. Broasca, **L. Gheorghe**, M. Greculeasa, F. Voicu, and G. Stanciu, "Czochralski growth and optical properties of nonlinear $\text{La}_x\text{Y}_y\text{Sc}_{4-x-y}(\text{BO}_3)_4$ - LYSB single crystal," TIM 19 Physics Conference, 29 - 31 May 2019, Timisoara, Romania, presentation CM-P03 (poster presentation).
90. F. M. Voicu, **L. Gheorghe**, M. Greculeasa, A. Broasca, C. Gheorghe, S. Hau, and G. Croitoru, " Nd^{3+} doped $\text{La}_x\text{Gd}_y\text{Sc}_{4-x-y}(\text{BO}_3)_4$ as bifunctional laser and nonlinear crystal," TIM 19 Physics Conference, 29 - 31 May 2019, Timisoara, Romania, presentation CM-P06 (poster presentation).
89. G. Stanciu, **L. Gheorghe**, F. Voicu, C. A. Brandus, C. Tihon, G. Croitoru, and N. Pavel, "Fabrication and laser performance of highly transparent Nd:YAG ceramics," TIM 19 Physics Conference, 29 - 31 May 2019, Timisoara, Romania, presentation CM-P08 (poster presentation).
88. S. Hau, C. Gheorghe, **L. Gheorghe**, F. Voicu, M. Greculeasa, G. Stanciu, and M. Enculescu, "Luminescence properties of Pr^{3+} doped $\text{Ca}_3(\text{Li},\text{Nb},\text{Ga})_5\text{O}_{12}$ single crystal," TIM 19 Physics Conference, 29 - 31 May 2019, Timisoara, Romania, presentation CM-P09 (poster presentation).
87. M. Greculeasa, **L. Gheorghe**, A. Broasca, F. Voicu, C. Gheorghe, S. Hau, and G. Stanciu, "Czochralski growth and characterization of Yb-doped LYSB single crystals," TIM 19 Physics Conference, 29 - 31 May 2019, Timisoara, Romania, presentation CM-P11 (poster presentation).
86. C. Gheorghe, S. Hau, **L. Gheorghe**, and G. Stanciu, "Cooperative energy transfer in $\text{Ca}_3(\text{Nb},\text{Ga})_5\text{O}_{12}$ ceramics doped with ytterbium and terbium," TIM 19 Physics Conference, 29 - 31 May 2019, Timisoara, Romania, presentation CM-P12 (poster presentation).
85. **L. Gheorghe**, M. Greculeasa, F. Voicu, F. Khaled, P. Loiseau, G. Aka, S. Hau, C. Gheorghe, G. Croitoru, N. Pavel, "Pure and Nd-doped Czochralski-grown $\text{La}_x\text{Gd}_y\text{Sc}_{4-x-y}(\text{BO}_3)_4$ nonlinear optical single crystals," ECCG6 Sixth European Conference on Crystal Growth, Varna, Bulgaria, 16-20 September 2018; poster presentation S02-P15.
84. M. Greculeasa, **L. Gheorghe**, F. Voicu, C. Gheorghe, S. Hau, A. M. Vlaicu, "Crystal growth and structural investigation of Sm^{3+} , Dy^{3+} -doped CNNG and CLNGG crystals for lasers in the visible

- range," ECCG6 Sixth European Conference on Crystal Growth, Varna, Bulgaria, 16-20 September 2018; poster presentation S02-P35.
83. G. Stanciu, **L. Gheorghe**, F. Voicu, S. Hau, C. Gheorghe, T. Dascalu, M. Enculescu, "Highly transparent Yb:Y₂O₃ ceramics obtained by solid-state reaction and combined sintering procedures," ECCG6 Sixth European Conference on Crystal Growth, Varna, Bulgaria, 16-20 September 2018; poster presentation S09-P11.
 82. **L. Gheorghe**, M. Greculeasa, F. Voicu, F. Khaled, P. Loseau, G. Aka, S. Hau, C. Gheorghe, G. Croitoru, N. Pavel, "Czochralski growth and optical properties of pure, Yb- and Nd-doped La_xGd_ySc_{4-x-y}(BO₃)₄ nonlinear optical and laser crystals," 8th EPS-QEOD EUROPHOTON CONFERENCE, Solid State, Fibre, and Waveguide Coherent Light Sources, 02-07 September, 2018, Barcelona, Spain; Europhysics Conference Abstracts Volume 42C, ISBN 979-10-96389-10-0; poster presentation ThP.34.
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