

LIST OF PUBLICATIONS

A. PAPERS PUBLISHED IN PEER-REVIEW JOURNALS

35. 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).
34. A. Broasca, M. Greculeasa, **F. Voicu**, C. Gheorghe and L. Gheorghe, "Pure and Yb-Doped $\text{La}_x\text{Y}_y\text{Sc}_{4-x-y}(\text{BO}_3)_4$ Crystals: A Review of Recent Advances," *Crystals* **13**(2), 169 (2023).
33. 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).
32. 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).
31. 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).
30. 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).
29. 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).
28. 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 $\text{Yb}:\text{LYSB}$ laser crystal," *J. Alloys & Comp.* **844**, 156143 (2020).
27. 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).
26. 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).
25. 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).
24. L. Gheorghe, M. Greculeasa, A. Broasca, **F. Voicu**, G. Stanciu, K. N. Belikov, E. Yu. Bryleva, and O. Gaiduk, "Incongruent Melting $\text{La}_x\text{Y}_y\text{Sc}_{4-x-y}(\text{BO}_3)_4$ - LYSB Nonlinear Optical Crystal Grown by the Czochralski Method," *ACS Appl. Mat. Interfaces*, **11**(23), 20987-20994 (2019).
23. S. Hau, C. Gheorghe, L. Gheorghe, **F. Voicu**, M. Greculeasa, G. Stanciu, A. Broasca, M. Enculescu, "Spectroscopic investigations of Pr^{3+} ions doped CNGG and CLNGG single crystals," *J. Alloy. Compd.* **799**, 288-301 (2019).
22. G. Stanciu, L. Gheorghe, **F. Voicu**, S. Hau, C. Gheorghe, G. Croitoru, M. Enculescu, and R.P. Yavetskiy, "Highly transparent $\text{Yb}:\text{Y}_2\text{O}_3$ ceramics obtained by solid-state reaction and combined sintering procedures," *Ceramics International* **45**(3), 3217-3222 (2019).

21. L. Gheorghe, M. Greculeasa, **F. Voicu**, C. Gheorghe, S. Hau, A. M. Vlaicu, K. N. Belikov, E. Yu. Bryleva, O. V. Gaiduk, "Crystal growth and structural characterization of Sm³⁺, Pr³⁺ and Dy³⁺-doped CNGG and CLNGG single crystals," *Opt. Mater.* **84**, 335-338 (2018).
20. C. Gheorghe, S. Hau, L. Gheorghe, **F. Voicu**, M. Greculeasa, M. Enculescu, K. N. Belikov, E. Yu. Bryleva, O. V. Gaiduk, "Yellow laser potential of cubic Ca₃(Nb,Ga)₅O₁₂:Dy³⁺ and Ca₃(Li,Nb,Ga)₅O₁₂:Dy³⁺ single crystals," *J. Alloys & Comp.* **739**, 806-816 (2018).
19. 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).
18. F. Khaled, P. Loiseau, **F. Voicu**, A. Achim, S. Hau, C. Gheorghe, G. Croitoru, N. Pavel, L. Gheorghe, G. Aka, "Spectroscopic properties and laser performances of Yb:LGSB nonlinear optical crystal," *J. Alloys & Comp.* **688** (Part A), 510-517 (2016).
17. L. Gheorghe, F. Khaled, A. Achim, **F. Voicu**, P. Loiseau, and G. Aka, "Czochralski Growth and Characterization of Incongruent Melting La_xGd_ySc_z(BO₃)₄ (x + y + z = 4) Nonlinear Optical Crystal," *Cryst. Growth Des.* **16** (6), 3473-3479 (2016).
16. C. Gheorghe, A. Lupei, S. Häu, **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).
15. A. Lupei, V. Lupei, S. Hau, C. Gheorghe, **F. Voicu**, "Structure and temperature effects on Nd³⁺ spectra in polycrystalline mixed scandium aluminum garnets Y₃Sc_xAl_{5-x}O₁₂," *Opt. Mat.* **47**, 465-472 (2015).
14. A. Achim, L. Gheorghe, **F. Voicu**, and G. Stanciu, "Blue light production by type-I non-critical phase matching second-harmonic generation in La(Ca_{1-x}Sr_x)₄O(BO₃)₃ single crystals," *CrystEngComm.* **17**, 4098-4101 (2015).
13. N. Pavel, G. Salamu, **F. Voicu**, F. Jipa, and M. Zamfirescu, "Cladding waveguides realized in Nd:YAG laser media by direct writing with a femtosecond-laser beam," *Proceedings of the Romanian Academy Series A - Mathematics Physics Technical Sciences Information Science* **15** (2), 151-158 (2014).
12. C. Gheorghe, A. Lupei, **F. M. Voicu**, and C. Tiseanu, "Emission properties and site occupation of Sm³⁺ ion doped Lu₂O₃ translucent ceramics," *J. Alloys and Comp.* **588**, 388-393 (2014).
11. G. Salamu, **F. Voicu**, N. Pavel, T. Dascalu, F. Jipa, and M. Zamfirescu, "Laser emission in diode-pumped Nd:YAG single-crystal waveguides realized by direct femtosecond-laser writing technique," *Rom. Reports in Physics* **65** (3), 943-953 (2013).
10. N. Pavel, G. Salamu, **F. Voicu**, F. Jipa, M. Zamfirescu, and T. Dascalu, "Efficient laser emission in diode-pumped Nd:YAG buried waveguides realized by direct femtosecond-laser writing," *Laser Physics Letters* **10** (9), 095802 (2013).
9. A. M. Voiculescu, S. Georgescu, C. Matei, A. G. Stefan, L. Gheorghe, A. Achim, and **F. Voicu**, "Infrared-excited red, green, violet and UV luminescence from langasite crystal doped with erbium and ytterbium", *Rom. J. Phys.* **58** (1-2), 136-142 (2013).
8. F. Stokker-Cheregi, A. Nedelcea, **F.-M. Voicu**, D.-M. Marin, R. Birjega, and M. Dinescu, "Structure and morphology of indium nitride thin films grown by plasma assisted PLD: the impact of nitrogen flow and substrate temperature," *Rom. Reports in Physics* **65** (1), 213-218 (2013).
7. T. Dascalu, G. Salamu, O. Sandu, **F. Voicu**, and N. Pavel, "Novel laterally pumped by prism laser configuration for compact solid-state lasers," *Laser Physics Letters* **10** (5), 05580 (2013).
6. A. Lupei, C. Tiseanu, C. Gheorghe, and **F. Voicu**, "Optical spectroscopy of Sm³⁺ in C₂ and C_{3i} sites of Y₂O₃ ceramics," *Appl. Phys. B*, **108** (4), 908-918 (2012).
5. C. Gheorghe, A. Lupei, **F. Voicu**, M. Enculescu, "Sm³⁺- doped Sc₂O₃ polycrystalline ceramics: spectroscopic investigation," *J. Alloys & Comp.* **535**, 78-82 (2012).
4. G. Salamu, O. Sandu, **F. Voicu**, M. Dejanu, D. Popa, S. Parlac, C. Ticos, N. Pavel, T. Dascalu, "Study of Flame Development in 12% Methane-Air Mixture Ignited by Laser," *Optoelectronics and Advanced Materials - Rapid Communications* **5** (11), 1166-1169 (2011).
3. L. Gheorghe, A. Achim, **F. Voicu**, and G. Aka, "Growth and type-I non critical phase matching second harmonic generation of Y_{1-x}R_xCa₄O(BO₃)₃ (R= Sc or Lu) crystals," *Optoelectronics and Advanced Materials - Rapid Communications* **5** (2), 103-105 (2011).

2. A. Achim, L. Gheorghe, S. Georgescu, and **F. Voicu**, "Growth and characterization of $Y_{0.7}Sc_{0.3}Ca_4O(BO_3)_3$ single crystal for nonlinear optical applications," Optoelectronics & Advanced Materials - Rapid Communications **4** (12), 1977-1980 (2010).
1. L. Gheorghe, A. Achim, **F. Voicu**, C. Ghica, "Growth and structural characterization of $Y_{0.6}Lu_{0.4}Ca_4O(BO_3)_3$ new nonlinear crystal," Journal of Optoelectronics and Advanced Materials **12** (8), 1680-1683 (2010).

B. PROCEEDINGS OF INTERNATIONAL CONFERENCES

(Presentations at International Meetings published in extended version)

1. G. Salamu, **F. Voicu**, F. Jipa, M. Zamfirescu, T. Dascalu, and N. Pavel, "Laser emission from diode-pumped Nd:YAG cladding waveguides obtained by direct writing with a femtosecond-laser beam," Proc. SPIE **9135**, Laser Sources and Applications II, 91351F (May 1, 2014); doi:10.1117/12.2052250; <http://dx.doi.org/10.1117/12.2052250>

C. COMMUNICATIONS AT INTERNATIONAL CONFERENCES

(Technical Digests, manuscripts up to 3 pages)

86. 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).
85. 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).
84. 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).
83. 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).
82. 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).
81. 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.
80. 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).
79. 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).
78. G. Croitoru, I. Anghel, **F. Voicu**, M. Greculeasa, A. Broasca, L. M. Gheorghe, N. Pavel, "Waveguides realized in $RE^{3+}:CLNGG$ laser crystals by direct writing with a fs-laser beam," The

- 9th Tiny Integrated Laser and Laser Ignition Conference 2022, 19-21 April 2023, Pacifico Yokohama, Yokohama, Japan, presentation TILA-LICp-03 (poster presentation).
77. L. Gheorghe, A. Broasca, M. Greculeasa, **F. Voicu**, G. Stanciu, S. Hau, C. Gheorghe, "Czochralski growth and characterization of newly developed Pr:LG SB nonlinear optical and laser crystal," 7th European Conference on Crystal Growth - ECCG7, 25-27 July 2022, Paris, France; oral presentation.
 76. S. Hau, M. Greculeasa, A. Broasca, **F. Voicu**, G. Stanciu, D. Avram, M. Enculescu, L. Gheorghe, C. Gheorghe, "Pr³⁺-doped Ca₃(Ta, Ga)₅O₁₂ 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.
 75. S. Hau, C. Gheorghe, L. Gheorghe, **F. Voicu**, M. Greculeasa, A. Broasca, G. Stanciu, M. Enculescu, "Spectroscopic Characterizations of Pr³⁺ and Dy³⁺ doped Calcium Tantalum Gallium Garnet- Ca_{2.85}Ta_{1.80}Ga_{3.10}O₁₂ Single Crystals," 20th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2022), July 12-15, Constanta, Romania; presentation S1-P7.
 74. A. Broasca, M. Greculeasa, **F. Voicu**, G. Stanciu, S. Hau, C. Gheorghe, and L. Gheorghe, "Growth and optical properties of the newly developed Pr:LG SB bifunctional crystal," 10th EPS-QEOD EUROPHOTON Conference, 28 Aug. - 2 Sept. 2022, Hannover, Germany; presentation TUE-P-1.8.
 73. 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}(BO₃)₄ as a new bifunctional laser and nonlinear crystal," 10th EPS-QEOD EUROPHOTON Conference, 28 Aug. - 2 Sept. 2022, Hannover, Germany; presentation TUE-P-1.9.
 72. 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 Y₃Al₅O₁₂ transparent ceramics," International Conference on Laser, Plasma and Radiation - Science and Technology, June 7-10, 2022 Bucharest, Romania; poster presentation P2-06.
 71. M. Greculeasa, A. Broasca, **F. Voicu**, G. Stanciu, S. Hau, C. Gheorghe, C.A. Brandus, N. Pavel, M. Enculescu, L. Gheorghe, "Crystal Growth and Characterization of La_{0.733}Nd_{0.035}Gd_{0.452}Sc_{2.78}(BO₃)₄ as a New Bifunctional Laser and Nonlinear Optical Crystal," International Conference on Laser, Plasma and Radiation - Science and Technology, June 7-10, 2022 Bucharest, Romania; poster presentation P2-05.
 70. A. Broasca, M. Greculeasa, **F. Voicu**, G. Stanciu, S. Hau, C. Gheorghe, L. Gheorghe, "Czochralski Growth and Characterization of new Pr:LG SB Nonlinear Optical Crystal," International Conference on Laser, Plasma and Radiation - Science and Technology, June 7-10, 2022 Bucharest, Romania; poster presentation P2-04.
 69. S. Hau, C. Gheorghe, L. Gheorghe, **F. Voicu**, M. Greculeasa, A. Brosca, G. Stanciu, D. Avram, M. Enculescu, "Luminescence and optical thermometry of the Pr³⁺ ions doped Ca₃(M,Ga)₅O₁₂ (M⁵⁺ = Nb, Ta) garnet phosphors," International Conference on Laser, Plasma and Radiation - Science and Technology, June 7-10, 2022 Bucharest, Romania; poster presentation P2-01.
 68. 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.
 67. 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 Nd³⁺- and Yb³⁺-doped Y₂O³ 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).
 66. M. Greculeasa, A. Broasca, **F. Voicu**, S. Hau, G. Croitoru, C. Brandus, G. Stanciu, C. Gheorghe, L. Gheorghe, "RE-doped LG SB (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).
 65. C. A. Brandus, M. Greculeasa, A. Broasca, **F. Voicu** and L. Gheorghe, "Self-frequency-doubling Nd:LG SB laser passively Q-switched by Cr⁴⁺:YAG saturable absorber," OSA Laser Congress, 13 - 16 Oct. 2020, oral presentation AF2A.6.

64. 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.
63. 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.
62. 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:Y₂O₃ ceramics via multi-step sintering method fabrication," 9th EPS-QEOD Europhoton Virtual Conference, 30 August - 4 September 2020; poster presentation Tu-P1.13.
61. 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).
60. 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).
59. L. Gheorghe, M. Greculeasa, A. Broasca, **F. Voicu**, G. Stanciu, S. Hau, C. Gheorghe, G. Croitoru, and N. Pavel, "Pure, Yb- and Nd-doped La_xGd_ySc_{4-x-y}(BO₃)₄ Czochralski-grown nonlinear optical and laser crystals," TIM 19 Physics Conference, 29 - 31 May 2019, Timisoara, Romania, presentation CM-I02 (invited presentation).
58. A. Broasca, L. Gheorghe, M. Greculeasa, **F. Voicu**, and G. Stanciu, "Czochralski growth and optical properties of nonlinear La_xY_ySc_{4-x-y}(BO₃)₄ - LYSB single crystal," TIM 19 Physics Conference, 29 - 31 May 2019, Timisoara, Romania, presentation CM-P03 (poster presentation).
57. **F. M. Voicu**, L. Gheorghe, M. Greculeasa, A. Broasca, C. Gheorghe, S. Hau, and G. Croitoru, "Nd³⁺ doped La_xGd_ySc_{4-x-y}(BO₃)₄ as bifunctional laser and nonlinear crystal," TIM 19 Physics Conference, 29 - 31 May 2019, Timisoara, Romania, presentation CM-P06 (poster presentation).
56. 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).
55. S. Hau, C. Gheorghe, L. Gheorghe, **F. Voicu**, M. Greculeasa, G. Stanciu, and M. Enculescu, "Luminescence properties of Pr³⁺ doped Ca₃(Li,Nb,Ga)₅O₁₂ single crystal," TIM 19 Physics Conference, 29 - 31 May 2019, Timisoara, Romania, presentation CM-P09 (poster presentation).
54. 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).
53. M. Greculeasa, L. Gheorghe, **F. Voicu**, A. Achim, G. Stanciu, "Growth and SHG in NCMP conditions in La(Ca_{1-x}Sc_x)₄O(BO₃)₃ single crystals," ROCAM 2017, 11-14 July 2017, Bucharest, Romania; poster presentation.
52. L. Gheorghe, **F. Voicu**, M. Greculeasa, A. Achim, F. Khaled, P. Loiseau, and G. Aka, "La_xGd_ySc_z(BO₃)₄ (x+y+z= 4) nonlinear optical crystals grown by the Czochralski method," ROCAM 2017, 11-14 July 2017, Bucharest, Romania, oral presentation.
51. **F. Voicu**, L. Gheorghe, A. Achim, C. Gheorghe, S. Hau, P. Loiseau, F. Khaled, G. Aka, G. Croitoru, "Optical and laser performances of Yb:LGSB nonlinear optical crystal," ROCAM 2017, 11-14 July 2017, Bucharest, Romania; poster presentation.
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