

## **LIST OF PUBLICATIONS**

### **1. PAPERS PUBLISHED IN PEER-REVIEW JOURNALS**

32. C. Gheorghe, S. Hau, L. Gheorghe, A. Broasca, M. Greculeasa, F. Voicu, **G. Stanciu**, M. Enculescu, "Growth and spectroscopic properties of  $\text{Ca}_3(\text{Ta,Ga})_5\text{O}_{12}\text{Pr}^{3+}$  single crystal as a promising new laser material in the visible domain," *Opt. Mater.* **150**, 115286 (2024).
31. 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).
30. C. Stanciu, S. Hau, **G. Stanciu**, R. Trusca, B. S. Vasile, C. Tihon, "Structural, microstructural characterization and luminescence spectroscopy of europium-doped strontium titanate prepared by the sol-gel method", *Ceram. Int.* **49**(23, Part A), 37293-37306 (2023).
29. O. Toma, A. Enachi, **G. Stanciu**, "Excited-state absorption in light-scattering Er:CaSc<sub>2</sub>O<sub>4</sub> ceramic," *J. Lumin.* **262**, 119937 (2023).
28. A. M. Voiculescu, S. Hau, **G. Stanciu**, C. Gheorghe, "Effects of Eu<sup>3+</sup> concentration on the thermoluminescence properties of narrow-band red-emitting Eu<sup>3+</sup>:SrLaGaO<sub>4</sub> phosphor," *J. Alloys & Compds.* **958**, 170507 (2023).
27. L. I. Toderascu, L. E. Sima, S. Orobeti, P. E. Florian, M. Icriverzi, V. A. Maraloiu, C. Comanescu, N. Iacob, V. Kuncser, I. Antohe, G. Popescu-Pelin, **G. Stanciu**, P. Ionita, C. N. Mihailescu, and G. Socol, "Synthesis and Anti-Melanoma Activity of L-Cysteine-Coated Iron Oxide Nanoparticles Loaded with Doxorubicin," *Nanomaterials* **13**(4), 621 (2023).
26. C. Gheorghe, S. Hau, L. Gheorghe, F. Voicu, M. Greculeasa, A. Broasca, and **G. Stanciu**, "RE<sup>3+</sup>-Doped  $\text{Ca}_3(\text{Nb,Ga})_5\text{O}_{12}$  and  $\text{Ca}_3(\text{Li,Nb,Ga})_5\text{O}_{12}$  Crystals (RE = Sm, Dy, and Pr): A Review of Current Achievements," *Materials* **16**(1), 269 (2023).
25. S. Hau, **G. Stanciu**, D. Avram, L. Gheorghe, C. Gheorghe, "Energy transfer and luminescent properties of Tb<sup>3+</sup> and (Tb<sup>3+</sup>, Yb<sup>3+</sup>) doped CNGG phosphors," *J. Rare Earths* **40**(9), 1445-1453 (2022).
24. C. Gheorghe, S. Hau, **G. Stanciu**, D. Avram, A. Broasca, L. Gheorghe, "Novel optical temperature sensors based on the emission of the Pr<sup>3+</sup> ions doped  $\text{Ca}_3(\text{M,Ga})_5\text{O}_{12}$  (M<sup>5+</sup> = Nb, Ta) garnet phosphors," *J. Alloys & Compds.* **922**, 166178 (2022).
23. 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).
22. 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).
21. A. M. Voiculescu, S. Hau, **G. Stanciu**, D. Avram, C. Gheorghe, "Optical thermometry through infrared excited green upconversion emissions of Er<sup>3+</sup>-Yb<sup>3+</sup> co-doped LaAlO<sub>3</sub> phosphors," *J. Lumin.* **242**, 118602 (2022).
20. **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:Y<sub>2</sub>O<sub>3</sub> ceramics via multi-step sintering method fabrication," *Opt. Mater.* **109**, 110411 (2020).
19. 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).
18. 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  $\text{La}_x\text{Gd}_y\text{R}_z\text{Sc}_{4-x-y-z}(\text{BO}_3)_4$  (R = Yb, Nd) crystals - A review of recent developments,” *Opt. Mat. X* **7**, 100052 (2020).
  17. A. M. Voiculescu, C. E. Tihon, S. Hau, **G. Stanciu**, O. Toma, “Optical study of  $\text{SrLaGa}_3\text{O}_7$  ceramic samples doped with  $\text{Er}^{3+}$  and  $\text{Yb}^{3+}$ ,” *Opt. Mater.* **100**, 109613 (2020).
  16. 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).
  15. S. Hau, C. Gheorghe, L. Gheorghe, F. Voicu, M. Greculeasa, **G. Stanciu**, A. Broasca, M. Enculescu, “Spectroscopic investigations of  $\text{Pr}^{3+}$  ions doped CNGG and CLNGG single crystals,” *J. Alloy. Compd.* **799**, 288-301 (2019).
  14. **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,” *Ceram. Int.* **45**(3), 3217-3222 (2019).
  13. **G. Stanciu**, N. D. Scarisoreanu, V. Ion, M. Dumitru, E. Andronescu, and M. Dinescu, “Structure and dielectric properties of Ca doped  $\text{Sr}_{0.5}\text{Ba}_{0.5}\text{Nb}_2\text{O}_6$  ceramic compositions”, *Romanian Journal of Materials* **46**(1), 70-74 (2016).
  12. **G. Stanciu**, N. D. Scarisoreanu, R. Birjega, A. Moldovan, E. Andronescu, and M. Dinescu, “Structural and morphological properties of  $\text{Sr}_{0.5}\text{Ba}_{0.5}\text{Nb}_2\text{O}_6$  thin films deposited by RF-PLD technique on Pt:Si and MgO substrates”, *U.P.B. Sci. Bull., Series B*, **78**(3), (2016); ISSN 1454-2331 (2016).
  11. E.S. Barca, M. Filipescu, C. Luculescu, R. Birjega, V. Ion, M. Dumitru, L.C. Nistor, **G. Stanciu**, M. Abrudeanu, C. Munteanu, and M. Dinescu, “Pyramidal growth of ceria nanostructures by pulsed laser deposition,” *Applied Surface Science* **363**, 245-251 (2016).
  10. **G. Stanciu**, A. Achim, N. D. Scarisoareanu, V. Ion, R. Birjega, E. Andronescu, and M. Dinescu, “Synthesis of calcium doped strontium barium niobate ceramic samples”, *Journal of Optoelectronics and Advanced Materials - Rapid Communication* **9** (5-6), 720-723 (2015).
  9. A. Achim, L. Gheorghe, F. Voicu, and **G. Stanciu**, “Blue light production by type-I non-critical phase matching second-harmonic generation in  $\text{La}(\text{Ca}_{1-x}\text{Sr}_x)_4\text{O}(\text{BO}_3)_3$  single crystals,” *CrystEngComm.* **17**, 4098-4101 (2015).
  8. C. Gheorghe, L. Gheorghe, A. Achim, S. Hau, R. D. Avram, **G. Stanciu**, “Optical properties of  $\text{Sm}^{3+}$  doped strontium hexa-aluminate single crystals,” *J. Alloys & Comp.* **622**, 296-302 (2015).
  7. D. Stoica and **G. Stanciu**, “Influence the degree of sorting the separation process a conical sieve,” *Digest Journal of Nanomaterials and Biostructures* **8** (2), 513-518, (2013).
  6. A. Andrei, N. D. Scarisoreanu, R. Birjega, M. Dinescu, **G. Stanciu**, F. Craciun, and C. Galassi, “Pulsed laser deposition of lead-free  $(\text{Na}_{0.5}\text{Bi}_{0.5})_{1-x}\text{Ba}_x\text{TiO}_3$  ferroelectric thin films with enhanced dielectric properties,” *Applied Surface Science* **278**, 162-165 (2013).
  5. **G. Stanciu**, M. Filipescu, V. Ion, E. Andronescu, and M. Dinescu, “Optical properties of tantalum oxide thin films obtained by laser deposition techniques,” *University Politehnica of Bucharest, Scientific Bulletin, Series B: Chemistry and Materials Science* **75** (2), (2013); ISSN 1454-2331, (2013).
  4. **G. Stanciu**, N. D. Scarisoreanu, R. Birjega, M. Dinescu, and E. Andronescu, “Role of the oxygen on the initial growth mechanism and microstructure of  $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$  thin films,” *Journal of Optoelectronics and Advanced Materials - Rapid Communication* **6** (11-12), 1192-1196, (2012).
  3. **G. Stanciu**, N. D. Scarisoreanu, V. Ion, A. Moldovan, E. Andronescu, and M. Dinescu, “ $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$  thin films deposited by pulsed laser deposition and radio-frequency assisted pulsed laser deposition,” *Journal of Optoelectronics and Advanced Materials* **14** (9-10), 852-857 (2012).
  2. I. Mohanu, N. Vlad, **G. Stanciu**, and R. Fechet, “Influence of conditions and period of storage for clinker and granulated furnace slag on cement characteristics,” *Romanian Journal of Materials* **40**

(2), 91-101, (2010).

1. A. Moanta, G. Guslicov, and **G Stanciu**, "The effect of surfactants on grinding and hardening the portland slag cement containing high blast furnace slag proportions," Romanian Journal of Materials **38** (4), 293-302, (2008).

## **2. PROCEEDINGS OF INTERNATIONAL CONFERENCES**

2. C.-A. Stanciu, T. Dascalu, **G. Stanciu**, N. Pavel, "Transparent Nd doped YAG ceramics," Journal of Physics: Conference Series **741**(1), art. 012074 (2016); 3rd International School and Conference on Optoelectronics, Photonics, Engineering and Nanostructures (Saint Petersburg OPEN 2016), 28-30 March 2016, St Petersburg, Russia; doi:10.1088/1742-6596/741/1/012074
1. 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.

## **3. COMMUNICATIONS AT INTERNATIONAL CONFERENCES**

(Technical Digests, manuscripts up to 3 pages)

85. O. V. Grigore, G. Croitoru, **G. Stanciu**, N. Pavel, "Study of multi-point laser ignition of CH<sub>4</sub>/air and H<sub>2</sub>/air mixtures in a constant-volume combustion chamber," Tmrees24Fr International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability, Metz, France, July 8-10, 2024 (oral presentation, online).
84. O. V. Grigore, G. Croitoru, **G. Stanciu**, A. Craciun, and N. Pavel, "Laser ignition of H<sub>2</sub>/air mixtures by a high-peak power passively Q-switched Nd:YAG/Cr<sup>4+</sup>:YAG laser," The 2nd International Conference on Laser, Plasma and Radiation - Science and Technology (ICLPR-ST), 16-21 June 2024, Danube Delta, Crişan, Romania (O5, oral presentation).
83. L. Gheorghe, A. Broasca, M. Greculeasa, F. Voicu, S. Hau, C. Gheorghe, **G. Stanciu**, G. Croitoru, and N. Pavel, "Nd:LYSB as a new laser and nonlinear optical crystal grown by the Czochralski method," The 2nd International Conference on Laser, Plasma and Radiation - Science and Technology (ICLPR-ST), 16-21 June 2024, Danube Delta, Crişan, Romania (P2-O1, poster presentation).
82. M. Greculeasa, A. Broasca, F. Voicu, C. Gheorghe, S. Hau, **G. Stanciu**, C.A. Brandus, N. Pavel, and L. Gheorghe, "Crystal growth and characterization of Nd:LGSB as bifunctional laser and nonlinear optical crystals," The 2nd International Conference on Laser, Plasma and Radiation - Science and Technology (ICLPR-ST), 16-21 June 2024, Danube Delta, Crişan, Romania (P2-O3, poster presentation).
81. F. Voicu, L. Gheorghe, C. Gheorghe, S. Hau, M. Greculeasa, A. Broasca, **G. Stanciu**, and M. Enculescu, "Growth and spectroscopic properties of Ca<sub>3</sub>(Ta,Ga)<sub>5</sub>O<sub>12</sub>Pr<sup>3+</sup> single crystal," The 2nd International Conference on Laser, Plasma and Radiation - Science and Technology (ICLPR-ST), 16-21 June 2024, Danube Delta, Crişan, Romania (P2-O4, poster presentation).
80. **G. Stanciu**, F. Voicu, C. Tihon, A.M. Voiculescu, S. Hau, C. Gheorghe, G. Croitoru, L. Gheorghe, and N. Pavel, "Multilayered Y<sub>2</sub>O<sub>3</sub>/RE<sup>3+</sup>:Y<sub>2</sub>O<sub>3</sub> (RE= Nd, Yb) transparent ceramics: Fabrication process and laser performances," The 2nd International Conference on Laser, Plasma and Radiation - Science and Technology (ICLPR-ST), 16-21 June 2024, Danube Delta, Crişan, Romania (P2-O5, poster presentation).
79. O. Toma, **G. Stanciu**, and A.-M. Voiculescu, "Excited-state absorption of Er<sup>3+</sup> in Y<sub>2</sub>O<sub>3</sub> transparent ceramics," The 2nd International Conference on Laser, Plasma and Radiation - Science and Technology (ICLPR-ST), 16-21 June 2024, Danube Delta, Crişan, Romania (P2-O6, poster presentation).
78. C. Tihon, C. Stanciu, S. Hau, and **G. Stanciu**, "Structural characterization and luminescence spectroscopy of in situ Er,Yb-codoped SrTiO<sub>3</sub> ceramics," The 2nd International Conference on Laser, Plasma and Radiation - Science and Technology (ICLPR-ST), 16-21 June 2024, Danube Delta, Crişan, Romania (P3-15, poster presentation).
77. C. Gheorghe, S. Hau, **G. Stanciu**, D. Avram, A. Broasca, and L. Gheorghe, "Pr<sup>3+</sup> ions doped Ca<sub>3</sub>(M,Ga)<sub>5</sub>O<sub>12</sub> (M<sup>5+</sup> = Nb, Ta) garnet phosphors as new optical temperature sensors," The 2nd International Conference on Laser, Plasma and Radiation - Science and Technology (ICLPR-ST),

- 16-21 June 2024, Danube Delta, Crişan, Romania (P5-01, poster presentation).
76. A. M. Voiculescu, S. Hau, **G. Stanciu**, and C. Gheorghe, "Novel SrLaGaO<sub>4</sub>:Er<sup>3+</sup> perovskite phosphor for optical thermometry," The 2nd International Conference on Laser, Plasma and Radiation - Science and Technology (ICLPR-ST), 16-21 June 2024, Danube Delta, Crişan, Romania (P5-02, poster presentation).
  75. A. M. Voiculescu, S. Hau, **G. Stanciu**, and C. Gheorghe, "Narrow-band red-emitting Eu<sup>3+</sup>:SrLaGaO<sub>4</sub> phosphor as a potential temperature sensor," The 2nd International Conference on Laser, Plasma and Radiation - Science and Technology (ICLPR-ST), 16-21 June 2024, Danube Delta, Crişan, Romania (P5-03, poster presentation).
  74. N. Pavel, O.-V. Grigore, **G. Stanciu**, G. Croitoru, "Characteristics of Laser Ignition in Methane/Air and Hydrogen/Air Mixtures in a Constant-Volume Combustion Chamber," 2<sup>nd</sup> International Conference Advances in 3OM: Opto-Mechatronics, Opto-Mechanics and Optical Metrology, 11-14 December 2023, Timisoara, Romania (paper OPT23-13, keynote presentation). Book of Abstracts, ISSN 2810-5249.
  73. 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).
  72. **G. Stanciu**, F. Voicu, C. A. Brandus, C. E. Tihon, S. Hau, C. Gheorghe, G. Croitoru, L. Gheorghe, N. Pavel, "Rare-earths doped Y<sub>2</sub>O<sub>3</sub> laser materials," International Conference on Crystal Growth and Epitaxy - ICCGE-20, 30 July - 04 August 2023, Naples, Italy; (poster presentation PS 2 - P30).
  71. 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).
  70. 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).
  69. A. M. Voiculescu, S. Hau, **G. Stanciu**, C. Gheorghe, "Synthesis and characterization of a new red phosphor SrLaGaO<sub>4</sub> doped with Eu<sup>3+</sup>," The 21<sup>th</sup> International Balkan Workshop on Applied Physics and Materials Science, 11-14 July, 2023, Constanta, Romania; paper S1 O17 (Book of abstracts, ISSN 2501-9058, page 30; oral presentation).
  68. C. Stanciu, C. Tihon, **G. Stanciu**, R. Trusca, "Structural, morphological, and optical properties of rare earth (erbium, ytterbium)-doped SrTiO<sub>3</sub> ceramics," XVIII<sup>th</sup> Conference of the European Ceramic Society, 2-6 July 2023, Lyon, France, paper S8-P146 (poster presentation).
  67. C. Tihon, C. Stanciu, **G. Stanciu**, S. Hau, M. Cernea, "Synthesis, characterization and spectroscopic properties of Er, Yb - doped SrTiO<sub>3</sub> ceramics sintered from sol-gel derived powders," E-MRS 2023 Spring meeting, 29 May - 2 June 2023, Strasbourg, France; session FP, paper 29\_909 (poster presentation).
  66. C. Stanciu, C. Tihon, **G. Stanciu**, S. Hau, M. Cernea, R. Trusca, "Investigation of rare earth (Er, Yb) effects on structural, morphological, and optical properties of SrTiO<sub>3</sub> doped ceramics elaborated from sol-gel synthesized nanopowders," E-MRS 2023 Spring meeting, 29 May - 2 June 2023, Strasbourg, France; session FP, paper 30-922 (poster presentation).
  65. **G. Stanciu**, F. Voicu, C. A. Brandus, C. E. Tihon, S. Hau, C. Gheorghe, G. Croitoru, L. M. Gheorghe, N. Pavel, "RE<sup>3+</sup>:Y<sub>2</sub>O<sub>3</sub> 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).
  64. C. Stanciu, C. Tihon, **G. Stanciu**, S. Hau, M. Cernea, "Investigation of microstructure and spectroscopic properties of europium doped SrTiO<sub>3</sub> ceramics prepared via sol-gel method," E-MRS 2022 Fall Meeting, 19-22 September 2022, Warsaw, Poland; presentation K.P.9.

63. C. Tihon, C. Stanciu, **G. Stanciu**, M. Cernea, "Spectroscopic Properties of Eu-doped SrTiO<sub>3</sub> Ceramics Sintered from Sol-Gel Derived Powders," E-MRS 2022 Fall Meeting, 19-22 September 2022, Warsaw, Poland; presentation K.P.8.
62. C. Stanciu, C. Tihon, **G. Stanciu**, S. Hau, M. Cernea, "Characterizations of vacuum sintered europium doped SrTiO<sub>3</sub> ceramics using sol-gel synthesized nanopowders," 14<sup>th</sup> International Conference on Physics of Advanced Materials - ICPAM-14 and PAMS-5, September 8-15, 2022, Dubrovnik, Croatia.
61. C. Tihon, C. Stanciu, **G. Stanciu**, M. Cernea, "Synthesis, characterization and spectroscopic properties of Eu-doped SrTiO<sub>3</sub> ceramics sintered from sol-gel derived powders," 14<sup>th</sup> International Conference on Physics of Advanced Materials - ICPAM-14 and PAMS-5, September 8-15, 2022, Dubrovnik, Croatia.
60. 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," 7<sup>th</sup> European Conference on Crystal Growth - ECCG7, 25-27 July 2022, Paris, France; oral presentation.
59. S. Hau, M. Greculeasa, A. Broasca, F. Voicu, **G. Stanciu**, D. Avram, M. Enculescu, L. Gheorghe, C. Gheorghe, "Pr<sup>3+</sup>-doped Ca<sub>3</sub>(Ta, Ga)<sub>5</sub>O<sub>12</sub> single crystal as potential laser material in the visible range," 7<sup>th</sup> European Conference on Crystal Growth - ECCG7, 25-27 July 2022, Paris, France; presentation P20.
58. S. Hau, C. Gheorghe, L. Gheorghe, F. Voicu, M. Greculeasa, A. Broasca, **G. Stanciu**, M. Enculescu, "Spectroscopic Characterizations of Pr<sup>3+</sup> and Dy<sup>3+</sup> doped Calcium Tantalum Gallium Garnet- Ca<sub>2.85</sub>Ta<sub>1.80</sub>Ga<sub>3.10</sub>O<sub>12</sub> Single Crystals," 20th International Balkan Workshop on Applied Physics and Materials Science (IBWAP 2022), July 12-15, Constanta, Romania; presentation S1-P7.
57. 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 EUROPHOTON Conference, 28 Aug. - 2 Sept. 2022, Hannover, Germany; presentation TUE-P-1.8.
56. 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<sub>0.733</sub>Nd<sub>0.035</sub>Gd<sub>0.452</sub>Sc<sub>2.75</sub>(BO<sub>3</sub>)<sub>4</sub> 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.
55. M. Boni, S. I. Nistorescu, T. Tozar, A. Dinache, **G. Stanciu**, A. Simon, A. M. Udrea, A. Staicu, "System for water treatment based on singlet oxygen micronanobubbles," International Conference on Laser, Plasma and Radiation - Science and Technology, June 7-10, 2022 Bucharest, Romania; poster presentation P5-11.
54. **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<sub>3</sub>Al<sub>5</sub>O<sub>12</sub> 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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