

LIST OF PUBLICATIONS

1. PAPERS PUBLISHED IN PEER-REVIEW JOURNALS

60. O. Toma, A. Enachi, G Stanciu, "Excited-state absorption in light-scattering Er:CaSc₂O₄ ceramic," J. Lumin. **262**, 119937 (2023).
59. A. Enachi, O. Toma, S. Georgescu, "Luminescent Er³⁺ centers in CaSc₂O₄:Er³⁺:Yb³⁺ upconversion phosphor," J. Lumin. **231**, 117816 (2021).
58. S. Georgescu, A. Stefan, O. Toma, "Phonon sidebands of Eu³⁺ in BaGd₂ZnO₅," J. Lumin. **228**, 117597 (2020).
57. A. M. Voiculescu, C. E. Tihon, S. Hau, G. Stanciu, O. Toma, "Optical study of SrLaGa₃O₇ ceramic samples doped with Er³⁺ and Yb³⁺," Opt. Mater. **100**, 109613 (2020).
56. A. Stefan, O. Toma, S. Georgescu, "Judd-Ofelt analysis of Eu³⁺ and Er³⁺ doped in ceramic BaGd₂ZnO₅," J. Luminesc. **204**, 261-268 (2018).
55. S. Georgescu, A. Stefan, O. Toma, "Judd-Ofelt analysis of Er-doped CaSc₂O₄ revisited," J. Luminesc. **199**, 488-491 (2018).
54. O. Toma, A. Stefan, S. Georgescu, "Excited-state absorption in light-scattering, ceramic erbium-doped langatate," J. Luminesc. **182**, 65-70 (2017).
53. A. Stefan, O. Toma, S. Georgescu, "Upconversion luminescence in CaSc₂O₄ doped with Er³⁺ and Yb³⁺," J. Luminesc. **180**, 376-383 (2016).
52. S. Georgescu, A. Stefan, A.M. Voiculescu, and O. Toma, "Judd-Ofelt analysis of Tm³⁺ doped in CaSc₂O₄ ceramic samples," J. Luminesc. **166**, 130-136 (2015).
51. S. Georgescu, A. Stefan, and O. Toma, "Judd-Ofelt and energy-transfer analysis of Er³⁺ doped in CaSc₂O₄ ceramic samples," J. Luminesc. **167**, 186-192 (2015).
50. A.M. Voiculescu, S. Georgescu, C. Matei, A. Stefan, and O. Toma, "Synthesis and characterization of La₃Ga_{5.5}Ta_{0.5}O₁₄ doped with holmium and ytterbium," Rom. J. Phys. **60**(3-4), 495-501 (2015).
49. S. Georgescu, A. Stefan, A. M. Voiculescu, O. Toma, "Judd-Ofelt analysis of ceramic La₃Ga_{5.5}Ta_{0.5}O₁₄ doped with Er³⁺," J. Luminesc. **162**, 168-173 (2015).
48. S. Georgescu, A. Stefan, O. Toma, A. M. Voiculescu, "Judd-Ofelt analysis of Ho³⁺ doped in ceramic CaSc₂O₄," J. Luminesc. **162**, 174-179 (2015).
47. S. Georgescu, O. Toma, C. Matei, A.M. Voiculescu, and A. Ștefan, "Judd-Ofelt analysis of Tm³⁺ in La₃Ga_{5.5}Ta_{0.5}O₁₄ ceramic with granular structure," J. Luminesc. **157**, 35-38 (2015).
46. O. Toma, S. Georgescu, "Excited-state absorption in erbium-doped calcium lithium niobium gallium garnet", J. Luminesc. **154**, 553-558 (2014).
45. S. Georgescu, A. Stefan, A. M. Voiculescu, O. Toma, C. Matei, R. Birjega, "Peculiarities of the Ho³⁺ → Yb³⁺ energy transfer in CaSc₂O₄:Ho:Yb", J. Luminesc. **154**, 142-147 (2014).
44. S. Georgescu, A. M. Voiculescu, C. Matei, A. Stefan, O. Toma, R. Birjega, "Upconversion luminescence in langatate ceramics doped with Tm³⁺ and Yb³⁺", J. Luminesc. **154**, 74-79 (2014).

43. O. Toma and S. Georgescu, "Judd-Ofelt analysis of Er³⁺ ions in calcium lithium niobium gallium garnet," *J. Luminesc.* **147C**, 259-264 (2014).
42. S. Georgescu, A. M. Voiculescu, S. Nastase, A. Zanfir, C. Matei, D. Berger, C. Matei, A. Stefan, and O. Toma, "Luminescence of Eu-doped langasite nanopowders synthesized by a modified Pechini route," *Journal of Luminescence* **145**, 690-696 (2014).
41. O. Toma and S. Georgescu, "Selectively excited Er³⁺ luminescence in calcium lithium niobium gallium garnet," *Rom. J. Phys.* **58** (3-4), 365-372 (2013).
40. S. Georgescu, A. M. Voiculescu, C. Matei, A. G. Stefan, and O. Toma, "Violet and near-ultraviolet upconversion luminescence in La₃Ga_{5.5}Ta_{0.5}O₁₄ codoped with Er³⁺ and Yb³⁺," *Physica B* **413**, 55-58 (2013).
39. A. M. Voiculescu, S. Georgescu, S. Nastase, C. Matei, D. Berger, C. Matei, A. Stefan, and O. Toma, "Upconversion luminescence of Er³⁺/Yb³⁺ co-doped nanolangasite synthesized by a modified Pechini route," *J. Sol-Gel Sci. Technol.* **64**, 667-672 (2012).
38. O. Toma, S. Georgescu, and L. Gheorghe, "Energy levels of Er³⁺ in calcium lithium niobium gallium garnet," *Romanian Reports in Physics* **64**(S), 1381-1390 (2012).
37. S. Georgescu, A. M. Voiculescu, S. Nastase, O. Toma, C. Matei, and R. Birjega, "Effect of aluminum substitution on the phase stability and luminescence properties of Eu-doped langanite nano-powders synthesized by a citrate sol-gel method," *Romanian Reports in Physics* **64** (3), 737-742 (2012)
36. S. Georgescu, O. Toma, A. M. Voiculescu, C. Matei, and R. Birjega, "Infrared-excited bright green and red luminescence in La₃Ga_{5.5}Ta_{0.5}O₁₄ doped with erbium and ytterbium," *Physica B - Condensed Matter* **407** (7), 1124-1127 (2012).
35. S. Georgescu, O. Toma, A. M. Voiculescu, L. Gheorghe, and A. Achim, "Energy level scheme of Eu³⁺:La₃Ga₅SiO₁₄ (langasite)," *Optoelectronics and Advanced Materials - Rapid Communication*, **6** (2), 22-24 (2012).
34. O. Toma, L. Gheorghe, and A.M. Vlaicu, "Synthesis and Characterization of Erbium Lithium Niobium Gallium Garnet," *Acta Physica Polonica A*, **121** (1), 193-195 (2012).
33. S. Georgescu, O. Toma, A.M. Voiculescu, "Effects of the thermal treatment on the luminescence of YVO₄:Er³⁺ nanocrystals", *Optoelectronics and Advanced Materials - Rapid Communications*, **5** (11), 1207-1209 (2011).
32. S. Georgescu, A.M. Voiculescu, O. Toma, L. Gheorghe, A. Achim, "5D0 luminescence in europium-doped langanite", *Optoelectronics and Advanced Materials - Rapid Communications*, **5** (11), 1139-1141 (2011).
31. A.M. Voiculescu, S. Georgescu, O. Toma, S. Nastase, R. Birjega, L. Petrescu, I. Enculescu, E. Matei, "Upconversion luminescence of Er, Yb – doped nanolanganite powders synthesized by a citrate sol-gel method", *Optoelectronics and Advanced Materials - Rapid Communications*, **5** (11), 1170-1173 (2011)
30. O. Toma, L. Gheorghe, and A. M. Vlaicu, "Synthesis and preliminary characterization of Erbium Lithium Niobium Gallium Garnet," *Rom. J. Phys.* **56** (7-8), 928-934 (2011).
29. O. Toma and S. Georgescu, "Competition between green and infrared emission in Er:YLiF₄ upconversion lasers," *Opt. Commun.* **284** (1), 388-397 (2011).
28. S. Georgescu, A.M. Voiculescu, O. Toma, L. Gheorghe, A. Achim, C. Matei, and S. Hau, "Luminescence efficiency of europium doped LGS, LGT, and LGN crystals," *Optoelectronics and Advanced Materials - Rapid Communications* **4** (12), 1937-1941 (2010).
27. S. Georgescu, A.M. Voiculescu, O. Toma, S. Nastase, C. Matei, M. Osiac, "Luminescence of Eu-doped langanite nanopowders synthesized by citrate sol-gel method," *J. Alloys & Compounds* **507** (2), 470-474 (2010).
26. O. Toma and S. Georgescu, "850 nm Emission in Er:YLiF₄ Upconversion Lasers," *Romanian Journal of Physics* **55** (7-8), 790-799 (2010).

25. S. Georgescu, E. Cotoi, A.M. Voiculescu, O. Toma, C. Matei, "Reflectance spectra of $\text{YVO}_4:\text{Eu}^{3+}$ synthesized by direct precipitation," Romanian Journal of Physics **55** (7-8), 750-757 (2010).
24. A.M. Voiculescu, E. Cotoi, O. Toma, S. Georgescu, S. Constantinescu, I. Bibicu, "Optical and Mössbauer spectroscopy studies on $\text{YVO}_4:\text{Eu}$ nanophosphor," Rom. Reports in Physics **62** (1), 121-127 (2010).
23. S. Georgescu, A.M. Voiculescu, C. Matei, O. Toma, L. Gheorghe, A. Achim, "Reflectance measurements on Europium-doped Langasite, Langanite and Langatate powders," Rom. Reports in Physics **62** (1), 128-133 (2010).
22. S. Georgescu, E. Cotoi, A.M. Voiculescu, O. Toma, M. N. Grecu, E. Borca, S. Hodoroagea, "Optical and EPR investigations of the thermal treatment effects on YVO_4 nanocrystals", Optoelectronics and Advanced Materials - Rapid Communications, **3** (12), 1383-1387 (2009).
21. 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", Optoelectronics and Advanced Materials - Rapid Communications, **3** (12), 1379-1382 (2009).
20. S. Georgescu, E. Cotoi, A. M. Voiculescu, O. Toma, "Effects of particle size on the luminescence of $\text{YVO}_4:\text{Eu}$ nanocrystals," Rom. Reports in Physics **60** (4), 947-955 (2008).
19. S. Georgescu, O. Toma, A. M. Chinie, L. Gheorghe, A. Achim, A. S. Stefan, "Excited state dynamics of Eu^{3+} in the partially disordered crystals $\text{La}_3\text{Ga}_5\text{SiO}_{14}$ and $\text{La}_3\text{Ga}_{5.5}\text{Ta}_{0.5}\text{O}_{14}$," J. Lumin. **128** (5-6), 741-743 (2008).
18. S. Georgescu, O. Toma, A. M. Chinie, L. Gheorghe, A. Achim, A.S. Stefan, "Spectroscopic characteristics of langasite ($\text{La}_3\text{Ga}_5\text{SiO}_{14}$) and langatate ($\text{La}_3\text{Ga}_{5.5}\text{Ta}_{0.5}\text{O}_{14}$) crystals doped with Eu^{3+} ," Opt. Mat. **30** (6), 1007-1012 (2008).
17. S. Georgescu, O. Toma, L. Gheorghe, A. Achim, A. M. Chinie, A. Stefan, "Disorder effects in the fluorescence spectra of Eu^{3+} in langatate ($\text{La}_3\text{Ga}_{5.5}\text{Ta}_{0.5}\text{O}_{14}$) crystals," Opt. Mat. **30**, 212-215 (2007).
16. O. Toma, E. Osiac, S. Georgescu, "Pump wavelengths for an Er: YLiF_4 green-emitting laser," Opt. Mat. **30**, 181-183 (2007).
15. S. Georgescu, A. M. Chinie, A. Stefan, O. Toma, "Spectroscopy of Eu:YAG nanopowders," Physica Status Solidi (c) **4** (3), 946-949 (2007).
14. S. Constantinescu, S. Georgescu, I. Bibicu, A. M. Chinie, A. S. Stefan, O. Toma, "Mössbauer and optical investigation of Eu:YAG nanocrystals synthesized by a sol-gel method," Romanian Journal of Physics **52** (3-4), 295-307 (2007).
13. O. Toma, "Emission regimes of a green Er: YLiF_4 laser," IEEE J. Quantum Electron. **43** (7), 519-526 (2007).
12. A. M. Chinie, A. Stefan, S. Georgescu, O. Toma, E. Borca, M. Bercu, "Structural and spectroscopical characterization of RE^{3+} (RE=Er, Eu, Tb) doped nanocrystalline YAG produced by a sol-gel method," J. Optoelectron. Adv. Mater. **8** (1), 95-98 (2006).
11. O. Toma, S. Georgescu, "Pump wavelengths for an upconversion-pumped Er:YAG green-emitting laser," Romanian Journal of Physics **51** (5-6), 649-661 (2006).
10. O. Toma, S. Georgescu, "The influence of pump wavelength on Er:YAG green-emitting laser characteristics," IEEE J. Quantum Electron. **42** (2), 192-197 (2006).
9. S. Georgescu, O. Toma, "Energy transfer processes in Er-doped crystals," Physica Status Solidi (c) **2** (1), 280-283 (2005).
8. S. Constantinescu, L. Gheorghe, C. Stoicescu, S. Georgescu, O. Toma, I. Bibicu, "Growth and XRD, optical and Mössbauer investigations of Eu-doped trigonal La-gallosilicate crystals," Romanian Reports in Physics **57** (2), 249-260 (2005).
7. S. Georgescu, A. M. Chinie, A. Stefan, O. Toma, "Effects of thermal treatment on the luminescence of YAG:Eu nanocrystals synthesized by a nitrate-citrate sol-gel method," J. Optoelectron. Adv. Mater. **7** (6), 2985-2990 (2005).

6. S. Georgescu, O. Toma, "Er:YAG three-micron laser: performances and limits," IEEE J. Sel. Top. Quantum Electron. **11** (3), 682-689 (2005).
5. S. Georgescu, O. Toma, I. Ivanov, "Upconversion from the $^4I_{13/2}$ and $^4I_{11/2}$ levels in Er:YAG," J. Lumin. **114**, 43-52 (2005).
4. O. Toma, S. Georgescu, "Dynamics of an upconversion Er:YAG laser with reabsorption losses," J. Opt. Soc. Am. B **21** (9), 1630-1637 (2004).
3. S. Georgescu, O. Toma, H. Totia, "Intrinsic limits of the efficiency of erbium 3- μ m lasers," IEEE J. Quantum Electron. **39** (6), 722-732 (2003).
2. S. Georgescu, O. Toma, C. Florea, C. Naud, "ESA processes responsible for infrared pumped, green and violet luminescence in low concentrated Er:YAG," J. Lumin. **101**, 87-99 (2003).
1. S. Georgescu, O. Toma, C. Florea, "Intrinsic efficiency of infra-red-pumped green emission of Er:YAG laser," Romanian Journal of Physics **48** (Supplement I), 307-315 (2003).

2. PROCEEDINGS OF INTERNATIONAL CONFERENCES

(Presentations at International Meetings published in extended version)

15. S. Georgescu, A. M. Voiculescu, C. Matei, A. G. Stefan, and O. Toma, "Upconversion luminescence in $\text{La}_3\text{Ga}_{5.5}\text{Ta}_{0.5}\text{O}_{14}$ codoped with Er^{3+} and Yb^{3+} ," Proc. SPIE **8882**, ROMOPTO 2012: Tenth Conference on Optics: Micro- to Nanophotonics III, 888204 (June 10, 2013); doi: 10.1117/12.2032265; <http://dx.doi.org/10.1117/12.2032265>
14. O. Toma, L. Gheorghe, and R. Birjega, "Solubility limits of Erbium in partially disordered crystals langanite and langatate," Romanian Journal of Physics **57** (9-10), xxx-xxxx (2012). Proceeding of the 12th International Balkan Workshop on Applied Physics (IBWAP), July 6-8, 2011, Constanta, Romania.
13. O. Toma and S. Georgescu, "Modeling of two wavelengths emission in erbium upconversion laser," AIP Conference Proceedings **1400**, 385-390 (2011).
12. 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 $\text{YVO}_4:\text{Eu}$ phosphor," Proc. SPIE **7469**, Micro- to Nanophotonics II - ROMOPTO 2009 Conference, August 31 - Sept. 03, 2009, Sibiu, Romania; paper 74690C (2010).
11. A. M. Voiculescu, E. Cotoi, O. Toma, S. Georgescu, S. Constantinescu, I. Bibicu, "Optical and Mössbauer spectroscopy studies on $\text{YVO}_4:\text{Eu}$ nanophosphor," 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, 670-672 (2009).
10. O. Toma, S. Georgescu, A. M. Voiculescu, E. Cotoi, "Dynamics of the upconversion laser emission at 850 nm in $\text{Er}:\text{YLiF}_4$," 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, 681-684 (2009).
9. E. Cotoi, A. M. Voiculescu, S. Georgescu, O. Toma, T. Rosu, L. Bran, E. Borca, S. Hodorozea, "Synthesis and spectroscopic characterization of upconversion nanophosphor NaYF_4 doped with erbium and codoped with ytterbium," 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, 689-692 (2009).
8. S. Georgescu and O. Toma, "Infrared and visible laser transitions in erbium-doped crystals," Proc. SPIE, vol. **7007**, art. no. 700709 (2008), The First International Conference on Industrial Applications of Lasers, INDLAS 2007, May 23-25, 2007, Bran, Romania.
7. S. Georgescu, S. Constantinescu, A. M. Chinie, A. S. Stefan, O. Toma, I. Bibicu, "Optical and Mössbauer studies on $\text{YAG}:\text{Eu}$ nanocrystals synthesized by a sol-gel method," Proceedings SPIE **6785**, 67850A; ROMOPTO '06: 8th Conference on Optics, Ed. V. I. Vlad, Sibiu, Romania, August 2006.
6. S. Georgescu, O. Toma, A. Achim, A. M. Chinie, L. Gheorghe, 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+} ," Proceedings SPIE **6785**, 678509; ROMOPTO '06: 8th Conference on Optics, Ed. V. I. Vlad, Sibiu, Romania, August 2006.
5. O. Toma, S. Georgescu, "Pump wavelengths for an $\text{Er}:\text{YAG}$ green-emitting laser," Proceedings SPIE **6054**, 60540L-1; International Conference on Lasers, Applications, and Technologies, Eds. G. Huber, V. Ya. Panchenko, I. A. Scherbakov, St. Petersburg, Russia, May 2005.
4. S. Georgescu, O. Toma, "Energy transfer processes in Er-doped crystals," Phys. Stat. Sol. (c) **2**, 280-283 (2005); 15th International Conference on Defects in Insulating Materials (ICDIM), Eds. A. Lushchik, I. Tale, S. Zazubovich, Riga, Latvia, July 2004.
3. S. Georgescu, O. Toma, "Modeling of a green upconversion pumped $\text{Er}:\text{YAG}$ laser," Proceedings SPIE. **5581**, 245; ROMOPTO 2003: 7th Conference on Optics, Ed. V. I. Vlad, Constanta, Romania, September 2003.

2. S. Georgescu, O. Toma, H. Totia, "Intrinsic limits of the efficiency of 3- μm Er:YAG laser," Proceedings SPIE **5581**, 98; ROMOPTO 2003: 7th Conference on Optics, Ed. V. I. Vlad, Constanta, Romania, September 2003.
1. O. Toma, S. Georgescu, "Dynamics of an upconversion-pumped Er:YAG laser exhibiting reabsorption losses," Proceedings SPIE **5449**, 155; 8th International Conference on Laser and Laser Information Technologies, Eds. V. Ya. Panchenko, N. V. Sabotinov, Smolyan, Bulgaria, September 2003.

3. COMMUNICATIONS AT INTERNATIONAL CONFERENCES

(Technical Digests, manuscripts up to 3 pages)

35. A. Enachi, O. Toma, "Upconversion luminescence in $\text{BiTa}_7\text{O}_{12}$ codoped with Er^{3+} and Yb^{3+} ," International Conference on Laser, Plasma and Radiation - Science and Technology, June 7-10, 2022 Bucharest, Romania; poster presentation P2-03.
33. O. Toma, A. Enachi, G. Stanciu, "Excited-state absorption in optically-scattering erbium-doped ceramics," International Conference on Laser, Plasma and Radiation - Science and Technology, June 7-10, 2022 Bucharest, Romania; poster presentation P1-05.
32. A. Stefan, S. Georgescu, and O. Toma, "Peculiarities of $\text{Er}^{3+} \leftrightarrow \text{Yb}^{3+}$ energy transfer in $\text{CaSc}_2\text{O}_4:\text{Er}:\text{Yb}$," 19th International Conference on Dynamical Processes in Excited States of Solids (DPC 2016), 17-22 July, 2016, Paris, France; Book of Abstracts, p. 202 (P29, poster presentation).
31. O. Toma, S. Georgescu, and A. Stefan, "Excited-state absorption in erbium-doped ceramic langatate," 2016 International Conference on Defects in Insulating Materials (ICDIM 2016)", 10-15 July 2016, Lyon, France (poster presentation).
30. O. Toma and S. Georgescu, "Excited-state absorption in Er-doped partially disordered calcium lithium niobium gallium garnet," 2016 International Conference on Defects in Insulating Materials (ICDIM 2016)", 10-15 July 2016, Lyon, France (poster presentation).
29. A. Stefan, O. Toma, S. Georgescu, "Improving monochromaticity of green upconversion luminescence by codoping Eu^{3+} ions in $\text{CaSc}_2\text{O}_4:\text{Ho}^{3+}:\text{Yb}^{3+}$," The 16th International Balkan Workshop on Applied Physics, 7-9 July, 2016, Constanta, Romania; Book of Abstracts, pp. 166-167 (S5 P9, poster presentation).
28. C. Matei, S. Georgescu, A. M. Voiculescu, O. Toma, "Spectroscopic characterization of $\text{LaGaO}_3:\text{Er}$ synthesized by solid state reaction," The 16th International Balkan Workshop on Applied Physics, 7-9 July, 2016, Constanta, Romania; Book of Abstracts, p. 70 (S1 P66, poster presentation).
27. S. Hau, C. Gheorghe, L. Gheorghe, A. Achim, F. Voicu, M. Greculeasa, M. Enculescu, O. Toma, "Crystal growth and spectroscopic investigations of Sm^{3+} doped CNGG and CLNGG single crystals," The 16th International Balkan Workshop on Applied Physics, 7-9 July, 2016, Constanta, Romania; Book of Abstracts, p. 65 (S1 P58, poster presentation).
26. A. Stefan, S. Georgescu, O. Toma, and C. Matei, "Upconversion luminescence in CaSc_2O_4 codoped with Er^{3+} and Yb^{3+} ," The 8th International Conference on Advanced Materials, ROCAM 2015, 7-10 July 2015, Bucharest, Romania; (oral presentation).
25. A. Stefan, S. Georgescu, O. Toma, A.M. Voiculescu, and C. Matei, "Synthesis by solid state reaction and luminescence properties of calcium scandate (CaSc_2O_4) doped with Ho^{3+} and Yb^{3+} ," 5th International Student Conference on Photonics, Orastie, Romania, 23-26 September 2014; presentation P.24 (poster presentation).
24. A. M. Voiculescu, S. Georgescu, C. Matei, A. Stefan, and O. Toma, "Synthesis and Characterization of $\text{La}_3\text{Ga}_{5.5}\text{Ta}_{0.5}\text{O}_{14}$ Doped with Holmium and Ytterbium," The 14th International Balkan Workshop on Applied Physics, July 2-4, 2014, Constanta, Romania, presentation S2-P20, Book of Abstracts p. 127 (poster presentation).
23. C. Matei, S. Georgescu, A. M. Voiculescu, A. Stefan, and O. Toma, "Luminescence Properties in Langatate Ceramics Doped with Tm^{3+} and Yb^{3+} ," The 14th International Balkan Workshop on Applied Physics, July 2-4, 2014, Constanta, Romania, presentation S2-OP2, Book of Abstracts p. 111 (oral presentation).
22. A. M. Voiculescu, S. Georgescu, C. Matei, A. Stefan, O. Toma, F. Voicu, and R. Birjega, "Synthesis and characterization of $\text{La}_3\text{Ga}_{5.5}\text{Ta}_{0.5}\text{O}_{14}$ doped with Yb and Tm for upconversion luminescence", Materials, Methods & Technologies, 15th Int. Symposium, 10-14 June 2013, Sunny Beach, Bulgaria, poster presentation - P66.
21. A. M. Voiculescu, S. Georgescu, C. Matei, A. Stefan, O. Toma, and S. Nastase, "Synthesis and characterization of Europium-doped nano Langasite," 3rd International Conference on RARE EARTH

MATERIALS (REMAT) Advances in Synthesis, Studies and Applications, 26-28 April 2013, Wroclaw, Poland (poster presentation).

20. A. M. Voiculescu, S. Georgescu, S. Nastase, O. Toma, C. Matei, and A. Stefan, "Upconversion processes in langasite nanopowders doped with erbium and ytterbium," (poster OPT 31P). International Conference on Elements Udine, Italy, August 23-31, 2012.
19. A. M. Voiculescu, S. Georgescu, O. Toma, and S. Nastase, "Properties of luminescence for nanopowders compounds from the langasite family doped with erbium and ytterbium," International Conference on Nanoscience + Technology (ICN+T2012), July 23-27, 2012, Paris (poster PO3-21). Europhysics Conference Abstracts Vol. 36D, ISBN No. 2-914771-77-0.
18. O. Toma, S. Georgescu, and L. Gheorghe, "Energy levels of Er^{3+} and their kinetics in the partially disordered calcium lithium niobium gallium garnet," Internat. Conf. Micro to Nano-Photonics III-ROMOPTO 2012, Bucharest, Romania, September 3-6 2012, poster presentation I.P.4.
17. S. Georgescu, A. M. Voiculescu, C. Matei, A.G. Stefan, and O. Toma, "Upconversion luminescence in $La_3Ga_{5.5}Ta_{0.5}O_{14}$ codoped with Er^{3+} and Yb^{3+} ," Internat. Conf. Micro to Nano-Photonics III-ROMOPTO 2012, Bucharest, Romania, 3-6 September 2012, oral presentation I.I.6.
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