

LIST OF PUBLICATIONS

A. PAPERS PUBLISHED IN PEER-REVIEW JOURNALS

33. 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).
32. 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).
31. 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).
30. 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).
29. 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).
28. R. P. Yavetskiya, A. G. Doroshenko, S. V. Parkhomenko, I. O. Vorona, A. V. Tolmachev, D. Yu. Kosyanov, A. A. Vornovskikh, A. M. Zakharenko, V. Yu. Mayoroc, L. Gheorghe, G. Croitoru, N. Pavel, V. V. Multian, and V. Ya. Gayvoronsky, "Microstructure evolution during reactive sintering of Y₃Al₅O₁₂:Nd³⁺ transparent ceramics: Influence of green body annealing," *J. Eur. Ceram. Soc.* **39**(13), 3867-3875 (2019).
27. P. Ribes-Pleguezuelo, N. Pavel, E. Beckert, C. Damm, A. Bodemann, O. V. Grigore, G. Croitoru, C. A. Brandus, N. T. Vasile, R. Eberhardt, and A. Tünnermann, "Assembly process and optical performances for a golden laser spark-plug device," *Opt. Eng.* **58**(6), 065101 (2019).
26. G. Stanciu, L. Gheorghe, F. Voicu, S. Hau, C. Gheorghe, G. Croitoru, M. Enculescu, and R.P. Yavetskiy, "Highly transparent Yb:Y₂O₃ ceramics obtained by solid-state reaction and combined sintering procedures," *Ceramics International* **45**(3), 3217-3222 (2019).
25. G. Croitoru (Salamu) and N. Pavel, "Passive Q-Switching by Cr⁴⁺:YAG Saturable Absorber of Buried Depressed-Cladding Waveguides Obtained in Nd-Doped Media by Femtosecond Laser Beam Writing," *Materials* **11**(9), 1689 (2018).
24. N. Pavel, M. Bärwinkel, P. Heinz, D. Brüggemann, G. Dearden, G. Croitoru, O. V. Grigore, "Laser Ignition - Spark Plug Development and Application in Reciprocating Engines," *Prog. Quantum Electron.* **58**, 1-32 (2018).
23. R. P. Yavetskiy, S. V. Parkhomenko, I. O. Vorona, A. V. Tolmachev, D. Yu Kosyanov, V. G. Kuryavyi, V. Yu. Mayorov, L. Gheorghe, G. Croitoru, M. Enculescu, "Effect of green body annealing on laser performance of YAG:Nd³⁺ ceramics," *Ceram. Int.* **44**(4), 4487-4490 (2018).
22. G. Croitoru (Salamu), F. Jipa, and N. Pavel, "Passive Q-switch laser operation of circular, buried depressed-cladding waveguides realized by direct fs-laser beam writing in Nd:YAG/Cr⁴⁺:YAG composite media," *Opt. Mat. Express* **7**(7), 2496-2504 (2017).
21. I. O. Vorona, R. P. Yavetskiy, A. G. Doroshenko, S. V. Parkhomenko, A. V. Tolmachev, V. N. Baumer, D. Yu Kosyanov, V. I. Vovna, V. G. Kuryavyi, M. Greculeasa, L. Gheorghe, S. Hau, C. Gheorghe, G. Croitoru, "Structural-phase state and lasing of 5-15 at.% Yb³⁺:Y₃Al₅O₁₂ optical ceramics," *J. Eur. Cer. Soc.* **37**(13), 4115-4122 (2017).

20. O. V. Grigore, G. Croitoru, T. Dascalu, N. Pavel, "Diode-laser edge-pumped Nd:YAG/YAG lens-shaped composite laser," *Opt. & Laser Techn.* **94**, 86-89 (2017).
19. T. Dascalu, G. Croitoru, O. Grigore, N. Pavel, "High-peak power passively Q-switched Nd:YAG/Cr⁴⁺:YAG composite laser with multiple-beam output," *Photonics Research*, **4**(6), 267-271 (2016).
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. G. Salamu and N. Pavel, "Power scaling from buried depressed-cladding waveguides realized in Nd:YVO₄ by femtosecond-laser beam writing," *Opt. & Laser Techn.* **84**, 149-154 (2016).
16. G. Salamu, F. Jipa, M. Zamfirescu, and N. Pavel, "Watt-Level Output Power Operation from Diode-Laser Pumped Circular Buried Depressed-Cladding Waveguides Inscribed in Nd:YAG by Direct Femtosecond-Laser Writing," *IEEE Photonics Journal* **8**(1), art. 1500209 (2016).
15. N. Pavel, T. Dascalu, G. Salamu, M. Dinca, N. Boicea, and A. Birtas, "Ignition of an automobile engine by high-peak power Nd:YAG/Cr⁴⁺:YAG laser-spark devices," *Opt. Express* **23**(26), 33028-33037 (2015).
14. T. Dascalu, G. Salamu, O. Sandu, M. Dinca, and N. Pavel, "Scaling and passively Q-switch operation of a Nd:YAG laser pumped laterally through a YAG prism," *Opt. & Laser Techn.* **67**, 164-168 (2015).
13. N. Pavel, G. Salamu, F. Jipa, and M. Zamfirescu, "Diode-laser pumping into the emitting level for efficient lasing of depressed cladding waveguides realized in Nd:YVO₄ by the direct femtosecond-laser writing technique," *Opt. Express* **22** (19), 23057-23065 (2014).
12. 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).
11. G. Salamu, F. Jipa, M. Zamfirescu, and N. Pavel, "Cladding waveguides realized in Nd:YAG ceramic by direct femtosecond-laser writing with a helical movement technique," *Opt. Mater. Express* **4** (4), 790-797 (2014).
10. G. Salamu, F. Jipa, M. Zamfirescu, and N. Pavel, "Laser emission from diode-pumped Nd:YAG ceramic waveguide lasers realized by direct femtosecond-laser writing technique," *Opt. Express* **22** (5), 5177-5182 (2014).
9. 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).
8. 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).
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. G. Salamu, E. Osiac, C. Dascalu, N. Pavel, and T. Dascalu, "Simultaneous Dual-Wavelength Operation at 1.06 and 1.34 μm in Nd-vanadate Laser Crystals," *Laser Physics* **22** (5), 866-871 (2012).
5. O. Sandu, G. Salamu, N. Pavel, T. Dascalu, D. Chuchumishev, A. Gaydardzhiev, and I. Buchvarov, "High-peak power, passively Q-switched, composite, all-poly-crystalline ceramics Nd:YAG/Cr⁴⁺:YAG lasers," *Quantum Electronics* **42** (3), 211-215 (2012).
4. G. Salamu, A. Ionescu, C. A. Brandus, O. Sandu, N. Pavel, and T. Dascalu, "High-Peak Power, Passively Q-switched, Composite, All-Poly-Crystalline Ceramics Nd:YAG/Cr⁴⁺:YAG Laser and Generation of 532-nm Green Light," *Laser Physics* **22** (1), 68-73 (2012).
3. G. Salamu, O. Sandu, F. Voicu, M. Dejanu, D. Popa, S. Parlac, C. Ticos, N. Pavel, and 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).
2. S. Georgescu, A.M. Voiculescu, G. Salamu, H. Niciu, D. Niciu, M. Popescu, A. Lőrinczi, A. Velea, I.D. Simandan, "Synthesis and luminescence properties of Nd-doped chalcogenide glass (Ge₅As₂S₁₃)(NdCl₃)_x(x=0.3%, 0.5%)," *Chalcogenide Letters* **7** (11), 621-624 (2010).

1. N. Pavel, T. Dascalu, G. Salamu, O. Sandu, A. Leca, and V. Lupei, "Q-switched Nd lasers pumped directly into the ${}^4F_{3/2}$ emitting level," Opt. Commun. **282** (24), 4749-4754 (2009).

B. PROCEEDINGS OF INTERNATIONAL CONFERENCES

(Presentations at International Meetings published in extended version)

- 4/C53. A. Birtas, N. Boicea, G. Croitoru, M. Dinca, N. Pavel, F. Draghici, and R. Chiriac, "On the possibility to improve petrol engine operation by laser ignition," Energy Procedia **157**, 1022-1028 (2019); Proceeding paper, Technologies and Materials for Renewable Energy, Environment and Sustainability (TMREES), TMREES18, 19-21 Sept. 2018, Athens, Greece. <https://doi.org/10.1016/j.egypro.2018.11.269>
- 3/C45. A. Birtas, N. Boicea, F. Draghici, R. Chiriac, G. Croitoru, M. Dinca, T. Dascalu, and N. Pavel, "On the assessment of performance and emissions characteristics of a SI engine provided with a laser ignition system," IOP Conf. Ser.: Mater. Sci. Eng. **252**, art. 012071 (2017); [doi:10.1088/1757-899X/252/1/012071](https://doi.org/10.1088/1757-899X/252/1/012071)
- 2/C19. 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](https://doi.org/10.1117/12.2052250); <http://dx.doi.org/10.1117/12.2052250>
- 1/C11. G. Salamu, A. Ionescu, C. Brandus, O. Grigore, N. Pavel, and T. Dascalu, "Generation of high-peak power 532-nm green pulses from composite, all-ceramics, passively Q-switched Nd:YAG/Cr⁴⁺:YAG laser," Proc. SPIE **8882**, ROMOPTO 2012: Tenth Conference on Optics: Micro- to Nanophotonics III, 888206 (June 10, 2013); [doi:10.1117/12.2032267](https://doi.org/10.1117/12.2032267); <http://dx.doi.org/10.1117/12.2032267>

C. COMMUNICATIONS AT INTERNATIONAL CONFERENCES

(Technical Digests, manuscripts up to 3 pages)

62. 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 AT1A.6.
61. 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).
60. 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).
59. 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.
58. N. Pavel, R. Chiriac, A. Birtas, N. Boicea, F. Draghici, G. Croitoru, and M. Dinca, "Lean-mixture operation of a passenger car gasoline engine ignited by passively Q-switched Nd:YAG/Cr⁴⁺:YAG laser spark plugs," CLEO Europe - EQEC 2019 Conference, 23-27 June 2019, München, Germany, presentation CM-P.13 (poster presentation).
57. 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).
56. 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).
55. 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).
54. P. Ribes-Pleguezuelo, E. Beckert, C. Damm, A. Bodemann, R. Eberhardt, A. Tünnermann, N. Pavel, O. V. Grigore, G. Croitoru, C. A. Brandus, and N. T. Vasile, "The "Golden" Laser Spark Plug Assembly Process," The 7th Laser Ignition Conference, 22-26 April 2019, Pacifico Yokohama, Yokohama, Japan, presentation LIC7-2 (oral presentation).
- B4/53. A. Birtas, N. Boicea, G. Croitoru, M. Dinca, N. Pavel, F. Draghici, R. Chiriac, "On the possibility to improve petrol engine operation by laser ignition," TMREES Conference Series, Technologies and Materials for Renewable Energy, Environment and Sustainability, TMREES18, 19-21 Sept. 2018, Athens, Greece; presentation 175.
52. N. Pavel, G. Croitoru, O. V. Grigore, M. Dinca, T. Dascalu, "Laser ignition - A review of laser spark plug development and achievements on engine ignition," Joint International Student Conference on Photonics & Modern Laser Application Conference 2018, ISCP-INDLAS 2018, September 3-7, 2018, Alba-Iulia, Romania; Plenary lesson; Book of Abstracts ISBN 978-606-16-1001-3; pages 19-21.
51. G. Croitoru and N. Pavel, "Passive Q-switch by Cr⁴⁺:YAG saturable absorber laser operation of circular, buried depressed-cladding waveguides inscribed by fs-laser beam in Nd:YAG and Nd:YVO₄," 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; presentation WeP.16 (poster presentation).

50. G. Dearden, N. Pavel, M. Bärwinkel, P. Heinz, D. Brüggemann, G. Croitoru, and O. V. Grigore, "Laser spark plug developments for engine ignition," The 6th Laser Ignition Conference, 23-27 April 2018, Pacifico Yokohama, Yokohama, Japan, presentation LIC3-1 (invited talk).
49. A. Birtas, N. Boicea, F. Draghici, R. Chiriac, G. Croitoru, M. Dinca, and N. Pavel, "On the performances of a 4-cylinder automobile engine with classical spark plug and laser ignition systems," The 6th Laser Ignition Conference, 23-27 April 2018, Pacifico Yokohama, Yokohama, Japan, presentation LIC3-5 (oral presentation).
48. N. Pavel, O. V. Grigore, G. Croitoru, and M. Dinca, "A high-peak power passively Q-switched Nd:YAG/Cr⁴⁺:YAG compact laser with multiple-beam output," The 6th Laser Ignition Conference, 23-27 April 2018, Pacifico Yokohama, Yokohama, Japan, presentation LICp6-1 (poster presentation).
47. L. Gheorghe, F. Voicu, M. Greculeasa, A. Achim, F. Khaled, P. Loiseau, G. Aka, S. Hau, C. Gheorghe, G. Croitoru, "Pure and Yb-doped La_xGd_ySc_{4-x-y}(BO₃)₄ incongruent borates type crystal: Czochralski growth, NLO properties and laser performances," TIM 17 Physics Conference, 25 - 27 May 2017, Timisoara, Romania; invited talk CM-I01.
- B3/46. A. Birtas, N. Boicea, F. Draghici, R. Chiriac, G. Croitoru, M. Dinca, T. Dascalu and N. Pavel, "On the assessment of performance and emissions characteristics of a SI engine provided with a laser ignition system," CAR 2017, The 11th Edition of The International Congress of Automotive and Transport Engineering, November 8-11 2017, University of Pitesti, Pitesti, Romania; presentation CAR 2017_090.
45. N. Pavel, A. Birtas, M. Dinca, G. Croitoru, T. Dascalu, and N. Boicea, "Ignition by Laser Sparks of a Gasoline Automobile Engine," IONS Balvanyos 2017, International OSA Network of Student, 25-28 July 2017, Balvanyos, Romania (invited talk); Book of Abstracts, ISBN 978-606-16-0903-1, pages 34-36.
44. I. O. Vorona, R. P. Yavetskiy, A. Doroshenko, S. Parkhomenko, A. Tolmachev, L. Gheorghe, M. Greculeasa, C. Gheorghe, S. Hau, C. A. Brandus, and G. Croitoru, "Nd³⁺:YAG Ceramic Materials with Efficient Laser Emission under Diode-Laser Pumping," The 5th Laser Ignition Conference, 20-23 June 2017, Bucharest, Romania; OSA Technical Digest (online) (Optical Society of America, 2017), paper LWA5.4 (poster presentation); ISBN: 978-1-943580-32-3 (<https://doi.org/10.1364/LIC.2017.LWA5.4>).
43. A. Birtas, N. Boicea, G. Croitoru, M. Dinca, T. Dascalu, N. Pavel, "Combustion Characteristics of a Gasoline-Air Mixture Laser Ignition," The 5th Laser Ignition Conference, 20-23 June 2017, Bucharest, Romania; OSA Technical Digest (online) (Optical Society of America, 2017), paper LFA3.4 (oral presentation).; ISBN: 978-1-943580-32-3 (<https://doi.org/10.1364/LIC.2017.LFA3.4>).
42. N. Pavel, A. Birtas, G. Croitoru, M. Dinca, N. Boicea, T. Dascalu, "Laser Ignition of a Gasoline Engine Automobile," The 5th Laser Ignition Conference, 20-23 June 2017, Bucharest, Romania; OSA Technical Digest (online) (Optical Society of America, 2017), paper LWA4.3 (oral presentation); ISBN: 978-1-943580-32-3 (<https://doi.org/10.1364/LIC.2017.LWA4.3>).
41. G. Croitoru, O. V. Grigore, M. Dinca, N. Pavel, M. Bärwinkel, P. Heinz, D. Brüggemann, "Aspects of Air-Breakdown with a High-Peak Power Passively Q-Switched Nd:YAG/Cr⁴⁺:YAG Laser," The 5th Laser Ignition Conference, 20-23 June 2017, Bucharest, Romania; OSA Technical Digest (online) (Optical Society of America, 2017), paper LWA5.9 (poster); ISBN: 978-1-943580-32-3 (<https://doi.org/10.1364/LIC.2017.LWA5.9>).
40. T. Dascalu, G. Croitoru, O. V. Grigore, and N. Pavel, "Multiple-Beam Output High-Peak Power Nd:YAG/Cr⁴⁺:YAG Laser for Laser Ignition," International Conference on Space Optics, ICSSO 2016, 18-21 Oct. 2016, Biarritz, France (presentation 254, poster presentation); Proc. of SPIE Vol. **10562**, 105625X (2016); doi: 10.1117/12.2296222
39. G. Croitoru, T. Dascalu, F. Jipa, M. Zamfirescu, N. Pavel, "High-power operation in circular buried depressed-cladding waveguides inscribed in Nd:YAG and Nd:YVO₄ by femtosecond-laser beam," 7th EPS-QEOD EUROPHOTON CONFERENCE, Solid State, Fibre, and Waveguide Coherent Light Sources, 21-26 August, 2016, Vienna, Austria; presentation FWG-4.4 (oral presentation).
38. O. V. Grigore, G. Croitoru, T. Dascalu, M. Dinca, N. Pavel, "Edge-pumped Nd:YAG/YAG lens-shaped composite laser," 7th EPS-QEOD EUROPHOTON CONFERENCE, Solid State, Fibre,

- and Waveguide Coherent Light Sources, 21-26 August, 2016, Vienna; Austria, PO-2.1 (poster presentation).
37. G. Croitoru (Salamu), N. Pavel, T. Dascalu, F. Jipa, M. Zamfirescu, "Power-scaling from burried depressed-cladding waveguides realized in Nd:YAG and Nd:YVO₄ by direct writing with a femtosecond-laser beam," The 16th International Balkan Workshop on Applied Physics, 7-9 July, 2016, Constanta, Romania; Book of Abstracts, pp. 77-78 (S2 L3, invited presentation).
 36. A. Birtas, G. Croitoru (Salamu), M. Dinca, T. Dascalu, N. Boicea, and N. Pavel, "The effect of laser ignition on a homogenous lean mixture of an automotive gasoline engine," The 4th Laser Ignition Conference, 17-20 May 2016, Pacifico Yokohama, Yokohama, Japan, presentation LIC6-2 (oral presentation).
(page 78 of <http://opicon.jp/wp-content/uploads/2016/05/OPIC2016FinalProgram.pdf>)
 35. G. Croitoru (Salamu), O. V. Grigore, T. Dascalu, and N. Pavel, "Passively Q-switched Nd:YAG/Cr⁴⁺:YAG laser with multiple-beam output," The 4th Laser Ignition Conference, 17-20 May 2016, Pacifico Yokohama, Yokohama, Japan, presentation LICp-1 (poster presentation).
(page 101 <http://opicon.jp/wp-content/uploads/2016/05/OPIC2016FinalProgram.pdf>)
 34. P. Loiseau, F. Khaled, G. Aka, L. Gheorghe, F. Voicu, G. Salamu, A. Achim, and N. Pavel, "Nonlinear optical borates suitable for crystal growth by Czochralski method frequency doubling and self-frequency doubling in the visible range," 7th International Symposium on Optical Materials, 29 Feb. - 04 March 2016, Lyon, France; invited talk I-7.
 33. J. Nikkinen, A. Härkönen, I. Leino, V.-M. Korpijärvi, G. Salamu, and M. Guina, "Q-switched microchip MOPA generating 100 ps pulses at 532 nm," SPIE Photonics West 2016, Solid State Lasers XXV: Technology and Devices, Conference 9726, Paper 9726-75, 13-18 February 2016, San Francisco, USA; (poster presentation).
 32. N. Pavel, T. Dascalu, M. Dinca, G. Salamu, N. Boicea, A. Birtas, "Laser Ignition of an Automobile Engine by a High-Peak Power Nd:YAG/Cr⁴⁺:YAG Laser," Advanced Solid State Lasers Conference and Exhibition (ASSL), 04 - 09 October 2015, WISTA-Technology Park, Adlershof-Berlin, Germany; presentation ATH2A.2 (poster presentation).
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