



PRESENTATIONS AT INTERNATIONAL CONFERENCES

- 2018 -

1. 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).
2. 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).
3. 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).
4. 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).
5. L. Gheorghe, M. Greuleasa, 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; presentation ThP.34 (poster presentation).
6. M. Greuleasa, L. Gheorghe, F. Voicu, C. Gheorghe, S. Hau, A. M. Vlaicu, "Growth and characterization of Sm- and Dy-doped CNGG and CLNGG single crystals for laser emission in the yellow - orange spectral range," 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 ThP.41 (poster presentation).
7. 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.
8. C. A. Brandus, T. Dascalu, "Construction and optimization of a SESAM - mode locked Nd:YVO₄ laser," Joint International Student Conference on Photonics & Modern Laser Application Conference 2018, ISCP-INDLAS 2018, September 3-7, 2018, Alba-Iulia, Romania; oral presentation; Book of abstracts ISBN 978-606-16-1001-3; pages 65-67.
9. L. Gheorghe, M. Greuleasa, F. Voicu, F. Khaled, P. Loiseau, G. Aka, S. Hau, C. Gheorghe, G. Croitoru, N. Pavel, "Czochralski growth, NLO properties and laser performances of pure and Nd-doped La_xGd_ySc_{4-x-y}(BO₃)₄ - LGSB single crystals," TIM18 Physics Conference, 24-26 May 2018, Timisoara, Romania; CM-O05, oral presentation.



NATIONAL INSTITUTE FOR LASER, PLASMA AND RADIATION PHYSICS

ATOMISTILOR 409, PO Box MG-36, Magurele 077125, Ilfov, ROMANIA
Phone: +40 21 457-4489, FAX: + 40 21 457-4243, <http://www.inflpr.ro>

10. G. Stanciu, F. Voicu, C. A. Brandus, C. Tihon, L. Gheorghe, T. Dascalu, "Highly transparent Yb³⁺-doped Y₂O₃ sesquioxide ceramics," TIM18 Physics Conference, 24-26 May 2018, Timisoara, Romania; CM-P10, poster presentation.
11. S. Hau, C. Gheorghe, L. Gheorghe, F. Voicu, M. Greculeasa, G. Stanciu, M. Enculescu, "Optical properties of Pr³⁺ doped Ca₃(Nb,Ga)₅O₁₂ single crystal," TIM18 Physics Conference, 24-26 May 2018, Timisoara, Romania; CM-P11, poster presentation.
12. M. Greculeasa, L. Gheorghe, F. Voicu, C. Gheorghe, S. Hau, M. Enculescu, "Growth and spectroscopic properties of Dy³⁺-doped CNGG and CLNGG crystals for lasers in the yellow spectral region," TIM18 Physics Conference, 24-26 May 2018, Timisoara, Romania; CM-P12, poster presentation.
13. A. Craciun, T. Dascalu, D. Dragoman, "Terahertz generation in Lithium Niobate with Gaussian beams: Theoretical modelling," The 18th International Balkan Workshop on Applied Physics, 10-13 July, 2018, Constanta, Romania; Book of Abstracts, pp. 92-93; S2 P8, poster presentation.
14. 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 La_xGd_ySc_{4-x-y}(BO₃)₄ nonlinear optical single crystals," ECCG6 Sixth European Conference on Crystal Growth, Varna, Bulgaria, 16-20 September 2018; poster presentation S02-P15.
15. M. Greculeasa, L. Gheorghe, F. Voicu, C. Gheorghe, S. Hau, A. M. Vlaicu, "Crystal growth and structural investigation of Sm³⁺, Dy³⁺-doped CNGG 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.
16. 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.
17. I. Vorona, R. Yavetskiy, A. Tolmachev, L. Gheorghe, C. Gheorghe, G. Croitoru, "The effect of rare-earth doping on sintering and functional response of RE:YAG (RE= Nd³⁺, Yb³⁺) transparent ceramics," ECCG6 Sixth European Conference on Crystal Growth, Varna, Bulgaria, 16-20 September 2018; poster presentation S04-P02.
18. 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.