



LIST OF PAPERS: 2019

1. C. A. Brandus, T. Dascalu, "Cavity design peculiarities and influence of SESAM characteristics on output performances of a Nd:YVO₄ mode locked laser oscillator," *Opt. & Laser Techn.* **111**, 452-458 (2019).
2. N. Pavel, R. Chiriac, A. Birtas, F. Draghici, and M. Dinca, "On the improvement by laser ignition of the performances of a passenger car gasoline engine," *Opt. Express* **27**(8), A385-A396 (2019).
3. 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," *Ceram. Int.* **45**(3), 3217-3222 (2019).
4. 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).
5. S. Hau, C. Gheorghe, L. Gheorghe, F. Voicu, M. Greculeasa, G. Stanciu, A. Broasca, M. Enculescu, "Spectroscopic investigations of Pr³⁺ ions doped CNGG and CLNGG single crystals," *J. Alloy. Compd.* **799**, 288-301 (2019).
6. 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).
7. L. Gheorghe, M. Greculeasa, A. Broasca, F. Voicu, G. Stanciu, K. N. Belikov, E. Yu. Bryleva, and O. Gaiduk, "Incongruent Melting La_xY_ySc_{4-x-y}(BO₃)₄ - LYSB Nonlinear Optical Crystal Grown by the Czochralski Method," *ACS Appl. Mat. Interfaces*, **11**(23), 20987-20994 (2019).
8. 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).
9. 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).