



### LIST OF PAPERS: 2020

1. A. M. Voiculescu, C. E. Tihon, S. Hau, G. Stanciu, O. Toma, "Optical study of SrLaGa<sub>3</sub>O<sub>7</sub> ceramic samples doped with Er<sup>3+</sup> and Yb<sup>3+</sup>," Opt. Mater. **100**, 109613 (2020).
2. C. A. Brandus, "Analysis of the self-frequency doubling nonlinear mirror mode-locking threshold. The case of Nd:GdCOB bi-functional material," Rom. Rep. Phys. **72**(1), 401 (2020).
3. N. T. Vasile, "Parallel encoding in optically multiplexed image camera for temporal resolution improvement," Opt. Eng. **59**(3), 033108 (2020).
4. A. Craciun and T. Dascalu, "A method to generate vector beams with adjustable amplitude in the focal plane," Appl. Sci. **10**(7), 2313 (2020).
5. 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<sub>x</sub>Gd<sub>y</sub>R<sub>z</sub>Sc<sub>4-x-y-z</sub>(BO<sub>3</sub>)<sub>4</sub> (R = Yb, Nd) crystals - A review of recent developments," Opt. Mat. X **7**, 100052 (2020).
6. M. Greculeasa, A. Broasca, F. Voicu, S. Hau, G. Croitoru, G. Stanciu, C. Gheorghe, N. Pavel, L. Gheorghe, "Bifunctional La<sub>x</sub>Nd<sub>y</sub>Gd<sub>z</sub>Sc<sub>4-x-y-z</sub>(BO<sub>3</sub>)<sub>4</sub> crystal: Czochralski growth, linear and nonlinear optical properties, and near-infrared laser emission performances," Opt. & Laser Techn. **131**, 106433 (2020).
7. 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).
8. C. Dumitrache and A. Yalin, "Gas dynamic regimes observed in dual-pulse laser ignition," Int. J. Heat Mass Transf. **161**, 120302 (2020).
9. S. Georgescu, A. Stefan, O. Toma, "Phonon sidebands of Eu<sup>3+</sup> in BaGd<sub>2</sub>ZnO<sub>5</sub>," J. Lumin. **228**, 117597 (2020).
10. 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).
11. C. Dumitrache, C. Butte, A. Yalin, "Resonant dual-pulse laser ignition technique based on oxygen REMPI pre-ionization," Sci. Rep. **10**, 19916 (2020).