



LIST OF PAPERS: 2024

1. G. Croitoru, F. Jipa, N. Pavel, "Laser emission from buried depressed-cladding waveguides inscribed in Nd:YAG ceramics by picosecond-laser beam writing," *Opt. Mater.* **148**, 114772 (2024).
<https://doi.org/10.1016/j.optmat.2023.114772>
2. A. Broasca, M. Greculeasa, F. Voicu, S. Hau, C. Gheorghe, G. Croitoru, N. Pavel, G. Stanciu, A. Petris, P. Gheorghe, F. Albota, A. Serban, L. Gheorghe, "LGYSB:Nd - high-performance lasing in the near-infrared region," *J. Am. Chem. Soc.* **146**(3), 2196-2207 (2024). <https://doi.org/10.1021/jacs.3c12371>
3. C. Stanciu, S. Hau, C. Tihon, "Effect of vacuum sintering on the microstructure and spectroscopic properties of Eu doped strontium titanate ceramics," *Ceram. Int.* **50**(8), 13871-13881 (2024).
<https://doi.org/10.1016/j.ceramint.2024.01.303>
4. C. Gheorghe, S. Hau, L. Gheorghe, A. Broasca, M. Greculeasa, F. Voicu, G. Stanciu, M. Enculescu, "Growth and spectroscopic properties of $\text{Ca}_3(\text{Ta,Ga})_5\text{O}_{12}\text{Pr}^{3+}$ single crystal as a promising new laser material in the visible domain," *Opt. Mater.* **150**, 115286 (2024).
<https://doi.org/10.1016/j.optmat.2024.115286>
5. G. Croitoru, F. Jipa, M. Greculeasa, A. Broasca, F. Voicu, L. Gheorghe and N. Pavel, "Buried depressed-cladding waveguides inscribed in Nd^{3+} and Yb^{3+} doped CLNGG laser crystals by picosecond-laser beam writing," *Materials* **17**(8), 1758 (2024). <https://doi.org/10.3390/ma17081758>
6. H. Boubekri, R. Fartas, M. Diaf, G. Cittadino, M. Tonelli, A. Bitam, O. Toma, "Luminescence properties of CdF_2 single crystals co-doped with Er^{3+} and Y^{3+} ions," *Luminescence* **39**(4), e4719 (2024).
<https://doi.org/10.1002/bio.4719>
7. O.-V. Grigore and N. Pavel, "Laser ignition of hydrogen/air mixtures in a constant-volume combustion chamber using a pulse-burst Nd:YAG/ Cr^{4+} :YAG laser spark plug," *Opt. Express* **32**(17), 30344-30359 (2024). <https://doi.org/10.1364/OE.532567>
8. S.V. Parkhomenko, O.O. Matvienko, I.O. Vorona, A.G. Doroshenko, O.S. Kryzhanovska, N.A. Safronova, P.V. Mateychenko, A.V. Tolmachev, A. Kuncser, G. Croitoru, R.P. Yavetskiy, "Reactive sintering of coaxial Yb^{3+} :YAG/YAG transparent ceramics," *Opt. Mater.* **156**, 115970 (2024).
<https://doi.org/10.1016/j.optmat.2024.115970>