

## Published papers by Laser Spectroscopy and Optics Group on 2020

1. T. Tozar, S. Santos Costa, A-M. Udrea, V. Nastasa, I. Couto, M. Viveiros, M.L. Pascu, M. O. Romanitan, "Anti-staphylococcal activity and mode of action of thioridazine photoproducts", **SCIENTIFIC REPORTS** 10, 18043 (2020).
2. T. Tozar, IR. Andrei, R. Costin, ML. Pascu, R. Pirvulescu; "Laser induced autofluorescence lifetime to identify larynx squamous cell carcinoma: Short series ex vivo study", **JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B: BIOLOGY**, 202, 111724 (2020).
3. A.M. Udrea, S. Avram, S. Nistorescu and M.L. Pascu "Laser Irradiated Phenothiazines: New Potential Treatment for COVID-19 Explored by Molecular Docking", **JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B: BIOLOGY**, 211, 111997 (2020).
4. Damian, C; Garoi, F; Udrea, C; Coltuc, D, "The Evaluation of Single-Pixel Camera Resolution", **IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY**, 30 (8), 517-2523 (2020).
5. I.I. Lungu, S. Nistorescu, M. A. Badea, A.M. Petre, A.M. Udrea, A.M. Banici, C. Fleacă, E. Andronescu, A. Dinischiotu, F. Dumitrache, A. Staicu, M. Balaş, "Doxorubicin-Conjugated Iron Oxide Nanoparticles Synthesized by Laser Pyrolysis: In Vitro Study on Human Breast Cancer Cells", **POLYMERS**, 12(2): 2799 (2020).
6. Dinache, T. Tozar, A. Smarandache, I. Andrei, S. Nistorescu, V. Nastasa, A. Staicu, M.L. Pascu, M.O. Romaitan; Spectroscopic Characterization of Emulsions Generated with a New Laser-Assisted Device; **MOLECULES**, 25(7): 1729 (2020).
7. I. Negut, L. Floroian, C. Ristoscu, C. N. Mihailescu, J. C. Mirza Rosca, T. Tozar, M. Badea, V. Grumezescu, C. Hapenciuc, I. N. Mihailescu; Functional Bioglass—Biopolymer Double Nanostructure for Natural Antimicrobial Drug Extracts Delivery; **NANOMATERIALS**; 10(2): 385 (2020).
8. P. C. Logofătu, F. Garoi, M. Boni, M. L. Pascu, "The study of the properties of water droplets using a Mach-Zehnder interferometer and Mie rigorous diffraction," **Rom. Rep. Phys.** 72 403 (2020).
9. I. M. Vlad, D. C. Nuta, C. Chirita, M. T. Caproiu, C. Draghici, F. Dumitrascu, C. Bleotu, S. Avram, A.M. Udrea, A. V. Missir, L.G. Marutescu, C. Limban, "In Silico and In Vitro Experimental Studies of New Dibenz[ b, e]oxepin-11(6 H)one O-(arylcarbamoyl)-oximes Designed as Potential Antimicrobial Agents", **MOLECULES**, 25(2):321 (2020).
10. A. K. Sharma; D. Huang; E. Vaughan; P. C. Logofătu; T. J. Rotter; M. L. Naudeau, "Fabrication, Characterization and Analysis of Concentrically Strained Silicon Nanowires with Extremely-High Hole Mobility", **IEEE JOURNAL OF QUANTUM ELECTRONICS**, 56(6):7400115 (2020).
11. I. Negut, V. Grumezescu, A.M. Grumezescu, A. C. Bîrcă, A. M. Holban, I. Urzica, S. M. Avramescu, B. Gălăţeanu, A. Hudiţă, "Nanostructured Thin Coatings Containing *Anthriscus sylvestris* Extract with Dual Bioactivity", **MOLECULES**, 25(17): 3866 (2020).
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