

### Published papers by Laser Spectroscopy and Optics Group on 2023

1. Balas, M.; Nistorescu, S.; Badea, M.A.; Dinischiotu, A.; Boni, M.; Dinache, A.; Smarandache, A.; Udrea, A.-M.; Prepelita, P.; Staicu, A., Photodynamic Activity of TMPyP4/TiO<sub>2</sub> Complex under Blue Light in Human Melanoma Cells: Potential for Cancer-Selective Therapy, **Pharmaceutics** 15 (4), 1194 (2023).
2. A. Dinache, S.I. Nistorescu, T. Tozar, A. Smarandache, M. Boni, A. Staicu, Spectroscopic Investigations of Porphyrin-TiO<sub>2</sub> Nanoparticles Complexes, **Molecules** 28 (1), 318 (2023).
3. A.M. Udrea, A. Smarandache, A. Dinache, C. Mares, S. Nistorescu, S. Avram, A. Staicu, Photosensitizers-Loaded Nanocarriers for Enhancement of Photodynamic Therapy in Melanoma Treatment, **Pharmaceutics** 15 (8), 2124 (2023).
4. I.R. Andrei, S. Simion, F. Garoi, M. Bulinski, M.L. Pascu, Optical cryptographic communications with non-identical chaotic laser systems, **Rom. Rep. Phys.** 75, 408 (2023).
5. Bratu, AM; Bojan, M ; Banita, S ; Petrus, M; Popa, C, NIR and THz spectroscopy: An experimental investigation toward nicotine-related devices, **J. Biophotonics**;16:e202300120 (2023).
6. Negrea, E; Oancea, P; Leonties, A; Udrea, AM; Avram, S; Raducan, A. Spectroscopic studies on binding of ibuprofen and drotaverine with bovine serum albumin, **Journal of Photochemistry and Photobiology A: Chemistry** 438, 1114512 (2023).
7. Bădiceanu, C.D.; Mares, C.; Nuță, D.C.; Avram, S.; Drăghici, C.; Udrea, A.-M.; Zarafu, I.; Chiriță, C.; Hovaneț, M.V.; Limban, C, N-Substituted (Hexahydro)-1H-isoindole-1,3(2H)-dione Derivatives: New Insights into Synthesis and Characterization, **Processes** 11 (6), 1616 (2023).
8. Mareș, C.; Udrea, A.-M.; Șuțan, N.A.; Avram, S., Bioinformatics Tools for the Analysis of Active Compounds Identified in Ranunculaceae Species, **Pharmaceutics** 16 (6), 842 (2023).
9. Enache M, Andriesei BM, Oancea A, Udrea AM, Raducan A, Oancea P, Avram S., Interaction of anti-inflammatory drug nimesulide with ionic and non-ionic surfactant micelles: Insights from spectral and bioinformatics approach, **Journal of Molecular Liquids** 392 (1), 123511 (2023).
10. Dumitrascu F, Caira MR, Avram S, Buiu C, Udrea AM, Vlad IM, Zarafu I, Ioniță P, Nuță DC, Popa M, Chifiriuc MC, Limban C, Repurposing anti-inflammatory drugs for fighting planktonic and biofilm growth. New carbazole derivatives based on the NSAID carprofen: synthesis, in silico and in vitro bioevaluation, **Frontiers in Cellular and Infection Microbiology** 13: 1181516 (2023).
11. Udrea AM, Avram S, Rotaru LI, Nuta DC, Dumitrascu F, Vlad IM, Coanda M, Dinu-Pirvu CE, Limban C, Characterization of novel carprofen derivatives as inhibitors of the serotonin 5-HT<sub>2c</sub> receptors and CLK4-KD protein kinase for the development of pharmacologically active compounds, **Farmacia** 71 (6), 1232-1240 (2023).