

Published papers by Laser Spectroscopy and Optics Group on 2021

1. T. Tozar, M. Boni, A. Staicu, M. L. Pascu, "Optical characterization of ciprofloxacin photolytic degradation by UV-pulsed laser radiation", *Molecules* 26, 2324 (2021).
2. A.M. Udrea, A. Dinache, J. M. Pagès, R. A. Pirvulescu, "Quinazoline Derivatives Designed as Efflux Pump Inhibitors: Molecular Modeling and Spectroscopic Studies". *Molecules*, 26, 2374 (2021)
3. P. C. Logofatu, N. T. Vasile, "Image resampling by interpolation guided by sensor geometry", *Romanian Reports in Physics*, 73(1), 402 (2021).
4. A-M. Bratu, C. Popa, M. Bojan, P. C. Logofatu, M. Petrus, "Nondestructive methods for fruit quality evaluation". *Scientific Reports* 11, 7782 (2021).
5. C. Onea, I.R. Andrei, P.E. Sterian, M.L. Pascu, M. Bulinski, "Numerical Simulation of Chaotic Multimode Dynamics of a Semiconductor Laser Optical Coupled with Two External Cavities", *UPB - Scientific Bulletin, Series A*, 83, 1 (2021).
6. I.R. Andrei, M. Boni, A. Staicu, M.L. Pascu, "Scattering resonances observed in the lasing emission spectrum of large dye-doped droplets", *Optics & Laser Technology* 140, 107088 (2021).
7. Á. Simon, A. Smarandache, V. Iancu, M.L. Pascu, "Stability of Antimicrobial Drug Molecules in Different Gravitational and Radiation Conditions in View of Applications during Outer Space Missions", *MOLECULES* 26(8), 2221 (2021).
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10. Á. Simon, A. Smarandache, T. Tozar, I.R. Andrei, A. Stoicu, J. JWA van Loon, A. Dowson, M.-L. Pascu, "Photoactive chlorpromazine and promazine drugs exposed to hypergravity conditions after interaction with UV laser radiation", *ACTA ASTRONAUTICA* 189, 260-268 (2021).
11. A.M. Udrea, G. Gradisteanu Pircalabioru, A.A. Boboc, C. Mares, A. Dinache, M. Mernea, S. Avram, "Advanced Bioinformatics Tools in the Pharmacokinetic Profiles of Natural and Synthetic Compounds with Anti-Diabetic Activity", *Biomolecules*, 11, 1692 (2021).
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13. L. Marian, A. Rotaru, A. Moanta, G.E. Iacobescu, I. Palarie, N. Cioatera, M. Popescu, M. C. Criveanu, E. Morintale, M. Bojan, P. Rotaru, "Azorubine: physical, thermal and bioactive properties of the widely employed food, pharmaceutical and cosmetic red azo dye material", *Journal of Thermal Analysis and Calorimetry* 143, 3945-3967 (2021).
14. S. Nistorescu, A.-M. Udrea, M. A. Badea, I. Lungu, M. Boni, T. Tozar, F. Dumitrache, V.-A. Maraloiu, Roua, G. Popescu, C. Fleaca, E. Andronescu, A. Dinischiotu, A. Staicu, M. Balas, "Low Blue Dose Photodynamic Therapy with Porphyrin-Iron Oxide Nanoparticles Complexes: In Vitro Study on Human Melanoma Cells", *Pharmaceutics* 13, 2130 (2021).
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 17. A. Dinache, M.-L. Pascu, A. Smarandache, "Spectral Properties of Foams and Emulsions", Molecules, 26(24), 7704 (2021)
 18. M. Kuzmanovic, A. Stancalie, D. Milovanovic, A. Staicu, Lj. Damjanovic-Vasilic, D. Rankovic, J. Savovic, "Analysis of lead-based archaeological pottery glazes by laser induced breakdown spectroscopy", Optics & Laser Technology 134, 106599, (2021).