

# Lista lucrărilor publicate de conducătorii de doctorat din SDSA domeniul FIZICĂ în perioada 2021-2025

vizibile în baza de date Web of Science la 1 februarie 2026

## A. Lucrări indexate ISI

2025

1. “Spectral based segmentation and bio-optical descriptors of cells from serous cavity effusion” Pleava, A, Ilisanu, M-A.; **M. MIHĂILESCU**; Scarlat, E; Ghioca, A; Ungureanu, A; Vladu, IG; Cristea, D-M; Fechete, V; Tarba, N; Tianu, E; Popescu, V; Vulpoi, G; Moiescu, M-G; Calin, V L., Proc. of the Rom Acad. Ser. A-Math Phys Tech Sci Inf. Sci. vol 26, iss 4, 375-383 (2025). WOS:001645387300006
2. „Influence of cells malignancy on pores formation under bipolar electric pulse”, Negoita, RD; Pleava, AM; Ilisanu, MA; **M. MIHĂILESCU**; Scarlat, E; Calin, VL, Romanian Rep. Physics vol 77 iss 4 (2025). WOS:001601133100005
3. “Magneto-Absorption Spectra of Laser-Dressed Coupled Quantum Dot–Double Quantum Ring”, Bejan, D., **STAN C.**, Petrescu-Niță, A., Nanomaterials 15 (11), art. no. 869 (2025). WOS:001505837700001
4. “Variability and trends of pm concentrations near bucharest in relation to european air quality standards“, Dandocsi, A.-V., Vasilescu, J., Nemuc, A., Țoancă, F., Ilie, A., Țilea, A., Vulturescu, V., **STAN C.**, UPB Scientific Bulletin, Series A: Applied Mathematics and Physics, 87 (2), pp. 197-208 (2025). WOS:001509577700018
5. „Spectral profiles comparison of candida guilliermondii and candida krusei yeasts cells”, Negoita, RD; Min, NA; Popa, M; Chifiriuc, CM; **M. MIHĂILESCU**, U.P.B. Sci. Bull., Series A vol 86, iss 4, 163-176 (2025). WOS:001644205800016
6. Distance between species by confusion operators of multi-class classifiers”, N Tarbă, I N. Irimescu, A M. Pleavă , E. N. Scarlat , **M. MIHĂILESCU** , U.P.B. Sci. Bull., Series A, Vol. 87, Iss. 1 (2025)
7. “THz optical properties of a large quantum dot-double ring in external fields”, Bejan, D., **STAN C.**, UPB Scientific Bulletin, Series A: Applied Mathematics and Physics, 87 (3), pp. 155-164 (2025). WOS:001444358700014
8. “FACE-ing the future of single-pixel complex-field microscopy beyond the visible spectrum“, **S.G. STANCIU**, E. Charbon, *Light: Science & Applications* (in press) WOS:001651939200006
9. “On the spectral emission of MBBA embedded CdTe quantum dots“, Cirtoaje, C., Anton, S. R., Ghidic, V., & **STANCIU, S.G.**, *Materials Letters*, 384, 138031 (2025). WOS:001403599400001
10. „Synthesis of Platinum Nanoparticles by Pulsed Laser Ablation with an Excimer KrF Laser in Deep Eutectic Solvents” - Lazar, OA; Nikolov, AS; Anicai, L; Mihai, GV; Messina, AA; **ENACHESCU, M**; ACS OMEGA, 10(8), pag. 8066-8081 (2025) WOS: 001431220500001.
11. „Unlocking the power of amorphous TiO<sub>2</sub>-decorated biocarbon composite: Enhanced photocatalytic performance for crystal violet dye degradation” - Brandao, ATSC; Rosoiu-State, S;

- Costa, R; Enache, LB; Mihai, GV; Vazquez, JA; Valcarcel, J; Anicai, L; **ENACHESCU, M**; Pereira, CM; JOURNAL OF WATER PROCESS ENGINEERING, 71 (2025). DOI: 10.1016/j.jwpe.2025.107288, WOS: 001435839400001.
12. „Shellfish biowaste-derived carbon architectures as renewably sourced cathode materials for Lithium-Sulfur batteries”, Bowman, D; Brandao, ATSC; State, S; Costa, R; **ENACHESCU, M**; Enache, LB; Pereira, CM; McNulty, D; JOURNAL OF POWER SOURCES, 649 (2025). DOI: 10.1016/j.jpowsour.2025.237406, WOS: 001501379500002.
  13. „Bone Fillers with Balance Between Biocompatibility and Antimicrobial Properties” - Sorca, BV; Kaya, DA; Kaya, MGA; **ENACHESCU, M**; Ghetu, DM; Enache, LB; Boerasu, I; Coman, AE ; Rusu, LC; Constantinescu, R; Titorencu, I; BIOMIMETICS, 10(2) (2025). DOI: 10.3390/biomimetics10020100, WOS: 001430534000001.
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  15. „Cathodic Electrodeposition of Cerium-Based Conversion Coatings Using Deep Eutectic Solvents Formulations for Corrosion Protection of AA7075 Aluminum Alloys” - Petica, A ; Costovici, S; Manea, AC; Cojocaru, A; Moise, CC; State, S; Anicai, L; **ENACHESCU, M**; METALS, 15(1)(2025), DOI: 10.3390/met15010020, WOS: 001404408300001.
  16. “Laser-based 3D printing and optical characterization of optical micro-nanostructures inspired by nocturnal insects compound eyes”, Calin BS, Popescu RC, Tanasa E, **PAUN IA**, Scientific Reports 15:3369 (2025). WOS:001408607300040
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  18. “Quantitative Imaging of Collagen Fibrils via Correlated Far-Field and Near-Field Optical Techniques “, Hristu, R., Tranca, D. E., **STANCIU, S. G.**, Eftimie, L. G., & Stanciu, G. A., *ACS Materials Letters*, 7, 3642-3651 (2025). WOS:001591488700001
  19. Diffraction-induced artifacts in scattering-type scanning near-field optical microscopy due to lateral and longitudinal inhomogeneities “, Tranca, D. E., **STANCIU, S. G.**, Hristu, R., Schatzberg, Y., Zalevsky, Z., Kusnetz, B., Karsenty, A., Banica, C.K., Stanciu, G. A., *Optics & Laser Technology*, 192, 113848 (2025). WOS:001571846000006
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  21. “Insights into the antibacterial properties of cancer theranostic zinc-doped iron oxide Zn<sub>x</sub>Fe<sub>3-x</sub>O<sub>4</sub> nanoparticles“, Asaftei, M., Lucidi, M., Anton, S. R., Tranca, D. E., Hristu, R., Wu, A., Yang, Y., Stanciu, G.A., Lazar, V., Ionita, M., Cincotti, G., Visca, P., Holban, A., Yang, F., **STANCIU, S. G.**, *Materials Today Communications* 44, 111962 (2025). WOS:001435134000001
  22. Correlation of Laser-Accelerated Electron Energy with Electromagnetic Pulse Emission from Thin Metallic Targets”, Aurelian Marcu, Mihai Stafe, Andreea Groza, Mihai Serbanescu, Razvan Ungureanu, Gabriel Cojocaru, Constantin Diplasu, Bogdan Mihalcea, Mihai Ganciu Constantin Negutu, Georgiana Giubega and **N. PUSCAS**, *Appl. Sci.* **5**, pp. 29 (2025). WOS:001393510900001
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1. „Controlling the interband transitions in a triple quantum ring: Effects of intense laser and electric fields”, Bejan, D., Stan, C., *Journal of Physics and Chemistry of Solids* 188, art. no. 111887(2024). WOS:001171458200001
2. „Specific spectral sub-images for machine learning evaluation of optical differences between carbon ion and X ray radiation effects”, Negoită, Ilişanu, Irimescu, Popescu, Tudor, **M. MIHĂILESCU**, Scarlat, Pleavă, Dinischiotu, Savu, *Heliyon* 10(15) (2024). WOS:001290451700001
3. “Osteoblast responsive biosilica-enriched gelatin microfibrillar microenvironments”, Olăreţ, Dinescu, Dobranici, Ginghina, Voicu, **M. MIHĂILESCU** Curti, Banciu, Sava, Amarie, Lungu, Stancu, *Biomaterials Advances* 161, 213894 (2024). WOS:001246485500001
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7. “Enhanced imaging with binary circular Dammann Fresnel zone plate”, Anton, S. R., Shabairou, N., **STANCIU, S. G.**, Stanciu, G. A., & Zalevsky, Z. *Optics Express*, 32(9), 16248-16259(2024). WOS:001233978500002
8. “Generic arrays of surface-positioned and shallow-buried gold multi-shapes as reference samples to benchmark near-field microscopes. Part 1: Applications in s-SNOM depth imaging”, Kusnetz, B., Belhassen, J., Tranca, D. E., **STANCIU, S. G.**, Anton, S. R., Zalevsky, Z., Stanciu, G.A. & Karsenty, A. *Results in Physics*, 107318 (2024). WOS:001156044900001
9. “Effect of mwcnt doping on the t<sub>ni</sub> transition temperatures and emission behavior of a nonmesogenic luminescent platinum(ii) complex in nematic liquid crystal 5cb “, Neaga, B; Ilis, M; **CIRTOAJE, C**; Danila, O; **MANAILA-MAXIMEAN**, D Cîrcu, V, *UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS* 86 (2), pp.153-166 (2024). WOS:001247266400014
10. “Optical properties of nematic liquid crystals with multiwall carbon nanotubes” Petrescu, E; **CIRTOAJE, C** and Saparov, B, *UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS* 86 (2) , pp.137-146 (2024). WOS:001247266400012
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18. The Influence of Reflowing Process on Electrodeposited Sn-Cu-Ni Lead-Free Solder Alloy” - State, SP; Costovici, S; **ENACHESCU, M**; Visan, T; Anicai, L; MATERIALS, 17(5) (2024), WOS: 001182795300001.
19. „Laboratory Assessment for Determining Microplastics in Freshwater Systems-Characterization and Identification along the Somesul Mic River” - Gheorghe, S; Stoica, C; Harabagiu, AM; Neidoni, DG; Mighiu, ED; Bumbac, C; Ionescu, IA; Pantazi, A; Enache, LB; **ENACHESCU, M**; WATER, 16(2) (2024), WOS: 001151072300001.
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6. „Renewable Carbon Materials as Electrodes for High-Performance Supercapacitors: From Marine Biowaste to High Specific Surface Area Porous Biocarbons” - Brandao, ATSC; State, S; Costa, R; Potorac, P; Vázquez, JA; Valcarcel, J; Silva, AF; Anicai, L; **ENACHESCU, M**; Pereira, CM; ACS OMEGA, 8(21), pag. 18782-18798 (2023), WOS: 001014134900001.
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