

## LISTA PUBLICAȚIILOR REZULTATE ÎN URMA CERCETĂRII DOCTORALE, PUBLICATE SAU ACCEPTATE SPRE PUBLICARE, SUB AFILIERE UPT

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### 1. Lucrări științifice publicate în reviste indexate Web of Science-WoS (ISI)

1. Erdelyi, R.-A.; Duma, V.-F.; Sinescu, C.; Dobre, G.M.; Bradu, A.; Podoleanu, A., Dental Diagnosis and Treatment Assessments: Between X-rays Radiography and Optical Coherence Tomography. *Materials* **2020**, *13*, 4825. **IF 3.623, Q1**; <https://doi.org/10.3390/ma13214825>; WOS:000589325700001;
2. Erdelyi, R.-A.; Duma, V.-F.; Sinescu, C.; Dobre, G.M.; Bradu, A.; Podoleanu, A., Optimization of X-ray Investigations in Dentistry Using Optical Coherence Tomography. *Sensors* **2021**, *21*, 4554. **IF 3.874, Q2**; <https://doi.org/10.3390/s21134554>; WOS:000671175000001;
3. Cioabla, A.; Duma, V.-F.; Mnerie, C.; Erdelyi, R.-A.; Dobre, G.M.; Bradu, A.; Podoleanu, A. Effect of an Anaerobic Fermentation Process on 3D-Printed PLA Materials of a Biogas-Generating Reactor. *Materials* **2022**, *15*, 8571. **IF 3.4/2022, Q2 – Editor’s Choice Articles in 2022 in the Section “Optics and Photonics”**; <https://doi.org/10.3390/ma15238571>; WOS:000896235700001

### 2. Lucrări științifice publicate în volumele unor manifestări științifice (Proceedings) indexate Web of Science-WoS (ISI) Proceedings

1. Erdelyi, R.-A.; Duma, V.-F. Optimization of radiation doses and patients’ risk in dental radiography. *AIP Conference Proceedings*, *2071*, *1*, 040013, **2019**. <https://doi.org/10.1063/1.5090080>; WOS:000468231600033;
2. Erdelyi, R.-A.; Duma, V.-F. Improving the Performances of the Sensor Array for Dental Radiographs. *IEEE 13th International Symposium on Applied Computational Intelligence and Informatics (SACI)*, 9111528, **2019**, pp. 1-6; <https://doi.org/10.1109/SACI46893.2019.9111528>; WOS:000610436600063;
3. Erdelyi, R.-A.; Duma, V.-F., Dobre, G., Bradu, A., Podoleanu, A.G. Investigations of dental cavities: between x-ray radiography and OCT. *Proc. SPIE, Optics and Measurement International Conference*, Vol. 11385, 04, pp. 17-27, **2019**; <https://doi.org/10.1117/12.2542904>; WOS:000529302400003;
4. Hutiu, G., Duma, V.-F., Demian, D., Dimb, A.-L., Erdelyi, R.-A., Bradu, A., Podoleanu, A.G. Metallic fractures assessments: OCT versus SEM. *Proc. SPIE, Optics and Measurement International Conference*, Vol. 11385, **2019**; <https://doi.org/10.1117/12.2542917>; WOS:000529302400006;
5. Erdelyi, R.-A., Duma, V.-F., Dobre, G., Bradu, A., Podoleanu, A.G. A combination of imaging techniques for dental medicine: from x-rays radiography and 3D CBCT to OCT. *Proc. SPIE, Biomedical Spectroscopy, Microscopy, and Imaging*, Vol. 11359, **2020**, pp. 210-219; <https://doi.org/10.1117/12.2542008>; WOS:000674749600027;
6. Erdelyi, R.-A., Duma, V.-F., Sinescu, C., Dobre, G., Bradu, A., Podoleanu, A.G. Complementarity of OCT and radiography for imaging investigations in dentistry. *Proc. SPIE, Advances in 3OM: Opto-Mechatronics, Opto-Mechanics, and Optical Metrology*, Vol. 12170, p. 1217002, **2022**; <https://doi.org/10.1117/12.2588676>; WOS:000838058200001;
7. Erdelyi, R.-A.; Duma, V.-F. Improvement of image characteristics of intraoral and panoramic radiographs by utilizing OCT as a control method. *Proc. SPIE, Optical Sensors (SPIE Optics + Optoelectronics)*, Prague (Czechia), Vol. 12572, **2023**. <https://doi.org/10.1117/12.2657252>; **în curs de indexare WOS**
8. Erdelyi, R.-A.; Duma, V.-F., ”Improvement of image characteristics for 3D CBCT in dental medicine using OCT”, *Proc. SPIE*, Vol. 12632, 126322B, **B.J. Vakoc, M. Wojtkowski, Y. Yasuno**, Eds., *SPIE-OPTICA European Conf. on Biomed. Opt. (ECBO - LASER Congress)*, Munchen (Germany), **2023**; <https://doi.org/10.1117/12.2664998>; **în curs de indexare WOS**
9. Duma, M.-S.; Drimbe, D.; Erdelyi, R.-A.; Duma, V.-F.; Moldovan, I.; Heredea, A.-M.; Heredea, E.R.; Negrutiu, M.-L.; Pop, D.M.; Rominu, M.; Stoia, D.I.; Sinescu, C. Optical Coherence Tomography and microbiology evaluations of different methods for manufacturing dental prostheses. *Proc. SPIE*, Vol. 12622, 1262212, **P. Ferraro, D. Psaltis, S. Grilli**, Eds., *Optical Methods for Inspection, Characterization, and Imaging of Biomaterials VI (SPIE Optical Metrology – LASER Congress)*, Munchen (Germany), **2023**; <https://doi.org/10.1117/12.2673297>; **în curs de indexare WOS**