

PhD. Student Maria Elena ZARIF (HURJUI)
List of papers that include data from the thesis

PAPERS LIST

1. **Zarif, M.E.**; Yehia, S.A.; Biță, B.; Sătulu, V.; Vizireanu, S.; Dinescu, G.; Holban, A.M.; Marinescu, F.; Andronescu, E.; Grumezescu, A.M.; et al. Atmospheric Pressure Plasma Activation of Hydroxyapatite to Improve Fluoride Incorporation and Modulate Bacterial Biofilm. *Int. J. Mol. Sci.* **2021**, 22, 13103, doi:10.3390/IJMS222313103. **Q1 IF (2021) = 6.208**;
2. Zarif, M.E.; Yehia-Alexe, S.A.; Bită, B.; Negut, I.; Locovei, C.; Groza, A. Calcium Phosphates–Chitosan Composite Layers Obtained by Combining Radio-Frequency Magnetron Sputtering and Matrix-Assisted Pulsed Laser Evaporation Techniques. *Polymers (Basel)*. **2022**, 14, 5241, doi:10.3390/polym14235241. **Q1 IF (2022) = 5**;
3. Zarif, M.E.; Bită, B.; Yehia-Alexe, S.A.; Negut, I.; Groza, A. Spectral Analysis of Strontium-Doped Calcium Phosphate/Chitosan Composite Films. *Polymers (Basel)*. **2023**, 15, 4245, doi:10.3390/polym15214245. **Q1 IF (2023) = 4.7**;
4. Zarif, M.E.; Bită, B.; Yehia-Alexe, S.A.; Negut, I.; Gradisteanu Pircalabioru, G.; Andronescu, E.; Groza, A. Biological and Physicochemical Analysis of Sr-Doped Hydroxyapatite/Chitosan Composite Layers. *Polymers (Basel)*. **2024**, 16, 1922, doi:10.3390/polym16131922. **Q1 IF (2023) = 4.7**;
5. Zarif, M.E.; Groza, A.; Yehia-Alexe, S.-A.; Bită, B.; Andronescu, E. The Influence of the Substrate Temperature on the Physicochemical Properties of Calcium Phosphate Layers Deposited by Low Power Radio-Frequency Magnetron Sputtering Discharge. *U.P.B. Sci. Bull., Ser. B*, **2025**, 87, 5–20. **Q4 IF (2023) = 0.3**;

SCIENTIFIC MEETINGS ATTENDED – related to the thesis

1. 10th International Conference on Advanced Materials, Bucharest, Romania (poster presentation): “Sr-doped Hydroxyapatite/ Chitosan composite layers deposited on titanium substrates for bone tissue engineering applications” **Zarif M.E.**; Bită. B.; Yehia-Alexe S.A.; Negut I.; Gradisteanu Pircalabioru G.; Groza A. (**2024**);
2. 2nd International Conference on Laser, Plasma, and Radiation -Science and Technology 2024 (poster presentation): “Physicochemical investigations of strontium-doped calcium

- phosphate/chitosan composite films deposited by plasma and laser techniques” **Zarif M.E.**; Bită. B.; Yehia-Alexe S.A.; Negut I.; Groza A. (2024);
3. 6th International Conference on Emerging Technologies in Materials Engineering, Bucharest, Romania, (poster presentation): “Calcium phosphate/ chitosan coatings obtained by radiofrequency magnetron sputtering and matrix-assisted pulsed laser evaporation techniques for bone tissue engineering applications” **Zarif M.E.**; Yehia-Alexe S.A.; Bită. B.; Negut I.; Locovei. C.; Groza A. (2023);
 4. 22nd Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, Romania (oral presentation): “Atmospheric plasma treatment to modulate biofilm formation and fluoridation of enamel-like hydroxyapatite model” **Holban A.M.**, Vizireanu S., Zarif M., Grumezescu A.M., Birca A., Farcasiu Alexandru Titus, Marinescu Florica, Chifiriuc Mariana Carmen (2022);
 5. 22nd Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, Romania (poster presentation): “Radiofrequency magnetron sputtering deposition of calcium phosphate coatings – chemical and phase composition”, **Zarif M.E.**, Yehia S.A., Biță B., Groza A., Grumezescu A., Andronescu E. (2022);
 6. Virtual International Scientific Conference on „Applications of Chemistry in Nanosciences and Biomaterials Engineering” (oral presentation): „Calcium Phosphate Coatings Obtained by Radiofrequency Magnetron Sputtering For Bone Tissue Engineering Applications”, **Zarif M.E.**, Yehia S.A., Biță B., Groza A., Grumezescu A., Andronescu E. (2022);
 7. International Scientific Conference “Applications of chemistry in Nanosciences and Biomaterials Engineering (oral presentation): „Atmospheric plasma treatment to modulate bacterial biofilms” **Zarif M.E.**, Yehia S.A., Satulu V., Dinescu G., Vizireanu S., Holban A., Marinescu F., Grumezescu A., Andronescu E., Farcasiu T. (2021);
 8. International Conference on Plasma Physics and Applications, Magurele, Romania (oral presentation): “Atmospheric plasma fluoridation for application in dentistry” **Zarif M.E.**, Yehia S.A., Bită B.I., Satulu V., Vizireanu S., Dinescu G., Grumezescu A.M., Farcasiu A.T., Holban A.M. (2021);
 9. International Scientific conference Applications of Chemistry in Nanosciences and Biomaterials Engineering (oral presentation): "Morphological, structural, and chemical characterization of hydroxyapatite obtained through different synthesis routes" **Zarif M.E.**, Holban A.M., Vizireanu S., Dinescu G., Grumezescu A.M., Andronescu E. (2021);

SCIENTIFIC MEETINGS ATTENDED – not related to the thesis

1. 10th International Conference on Advanced Materials, Bucharest, Romania (poster presentation): “Hydrogen isotopes released from beryllium layer by laser induced desorption and laser induced ablation” **Yehia-Alexe, S.A.**; Groza, A.; Serbanescu, M.; Zarif, M.E.; Bitu, B.; Dinca, P.; Butoi, B.; Staicu, C.; Porosnicu, C. (2024);
2. 2nd International Conference on Laser, Plasma, and Radiation -Science and Technology 2024 (oral presentation): “Mass spectrometry as tool for analysis of gaseous inclusion releases from thin films by laser induced ablation respectively laser induced desorption”; **Groza, A.**; Porosnicu, C.; Yehia-Alexe, S.A.; Serbanescu, M.; Zarif, M.E.; Bitu, B.; Dinca, P.; Butoi, B.; Staicu, C. (2024);
3. 2nd International Conference on Laser, Plasma, and Radiation -Science and Technology 2024 (poster presentation): “Spectral studies for detecting nitrate and nitrite compounds in water”; **Serbanescu, M.**; Groza, A.; Bitu, B.; Yehia-Alexe, S.A.; Zarif, M.E. (2024);
4. 6th International Conference on Emerging Technologies in Materials Engineering, Bucharest, Romania, (poster presentation): “Laser induced ablation and laser induced desorption methods for measurements of hydrogen isotopes in thin films” **Yehia-Alexe S.A.**; Groza A.; Serbanescu M.; Zarif M.; Bitu B.; Dinca P.; Butoi B; Porosnicu C. (2023);
5. 6th International Conference on Emerging Technologies in Materials Engineering, Bucharest, Romania (poster presentation): “Optical detection of waste compounds for environmental protection” **Yehia-Alexe S.A.**; Serbanescu M.; Bitu B.; Zarif M.; Groza A. (2023);
6. International Conference on Laser, Plasma, and Radiation – Science and Technology 2022, Bucharest, Romania (poster presentation): „Electrical Measurement of Carbon Coatings on Gas Sensors”, **Bitu B.**, Zarif M.E., Yehia S.A., Groza A. (2022);
7. International Conference on Plasma Physics and Applications, Magurele, Romania (poster presentation): “Material- and gas-dependent changes induced by atmospheric pressure plasma treatments on metallic surfaces” **Zarif M.E.**, Yehia S.A., Bitu B.I., Marascu V., Vizireanu S., Dinescu G., Corobea C. (2021);
8. International Conference on Plasma Physics and Applications, Magurele, Romania (poster presentation): “Organophosphorus toxic compounds degradation in aqueous solutions using single filament DBD plasma jet source ” **Yehia S.A.**, Zarif M.E., Carpen L., Bitu B., Petrea N., Vizireanu S., Stancu C., Dinescu G. (2021);